

## Surface Mount Multilayer Ceramic Chip Capacitors MIL Qualified, Type CDR



### FEATURES

- Military qualified products
- Federal stock control number, CAGE CODE 2770A
- High reliability tested per MIL-PRF-55681
- Tin / lead termination codes “Z” and “U”
- Lead (Pb)-free termination codes “W”, “Y”, “M”
- Wet build process
- Reliable Noble Metal Electrode (NME) system
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



### Note

\* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

### APPLICATIONS

- Avionic systems
- Sonar systems
- Satellite systems
- Missiles applications
- Geographical information systems
- Global positioning systems

### ELECTRICAL SPECIFICATIONS

#### Note

- Electrical characteristics at +25 °C unless otherwise specified

**Operating Temperature:** -55 °C to +125 °C

**Capacitance Range:** 1.0 pF to 470 nF

**Voltage Range:** 50 V<sub>DC</sub> to 100 V<sub>DC</sub>

#### Temperature Coefficient of Capacitance (TCC):

BP: 0 ppm/°C ± 30 ppm/°C from -55 °C to +125 °C, with 0 V<sub>DC</sub> applied

BX: ± 15 % from -55 °C to +125 °C, with 0 V<sub>DC</sub> applied

BX: +15 %, -25 % from -55 °C to +125 °C, with 100 % rated V<sub>DC</sub> applied

#### Dissipation Factor (DF):

BP: 0.15 % maximum

BX: 2.50 % maximum

Test frequency:

1 MHz ± 50 kHz for BP capacitors ≤ 1000 pF

and for BX capacitors ≤ 100 pF

All other BP and BX at 1 kHz ± 50 Hz

#### Aging Rate:

BP: 0 % maximum per decade

BX: 1 % maximum per decade

#### Insulation Resistance (IR):

at +25 °C and rated voltage 100 000 MΩ minimum or 1000 ΩF, whichever is less

#### Dielectric Strength Test:

performed per method 103 of EIA-198-2-E.

Applied test voltages:

≤ 100 V<sub>DC</sub>-rated: 250 % of rated voltage



| QUICK REFERENCE DATA |              |                     |             |         |
|----------------------|--------------|---------------------|-------------|---------|
| DIELECTRIC           | STYLE (CASE) | MAXIMUM VOLTAGE (V) | CAPACITANCE |         |
|                      |              |                     | MINIMUM     | MAXIMUM |
| BP                   | CDR01 (0805) | 100                 | 10 pF       | 180 pF  |
| BX                   | CDR01 (0805) | 100                 | 120 pF      | 4.7 nF  |
| BP                   | CDR02 (1805) | 100                 | 220 pF      | 270 pF  |
| BX                   | CDR02 (1805) | 100                 | 3.9 nF      | 22 nF   |
| BP                   | CDR03 (1808) | 100                 | 330 pF      | 1.0 nF  |
| BX                   | CDR03 (1808) | 100                 | 12 nF       | 68 nF   |
| BP                   | CDR04 (1812) | 100                 | 1.2 nF      | 3.3 nF  |
| BX                   | CDR04 (1812) | 100                 | 39 nF       | 180 nF  |
| BX                   | CDR06 (2225) | 50                  | 390 nF      | 470 nF  |
| BP                   | CDR31 (0805) | 100                 | 1.0 pF      | 680 pF  |
| BX                   | CDR31 (0805) | 100                 | 470 pF      | 18 nF   |
| BP                   | CDR32 (1206) | 100                 | 1.0 pF      | 2.2 nF  |
| BX                   | CDR32 (1206) | 100                 | 4.7 nF      | 39 nF   |
| BP                   | CDR33 (1210) | 100                 | 1.0 nF      | 3.3 nF  |
| BX                   | CDR33 (1210) | 100                 | 15 nF       | 100 nF  |
| BP                   | CDR34 (1812) | 100                 | 2.2 nF      | 10 nF   |
| BX                   | CDR34 (1812) | 100                 | 27 nF       | 180 nF  |
| BP                   | CDR35 (1825) | 100                 | 4.7 nF      | 22 nF   |
| BX                   | CDR35 (1825) | 100                 | 56 nF       | 470 nF  |

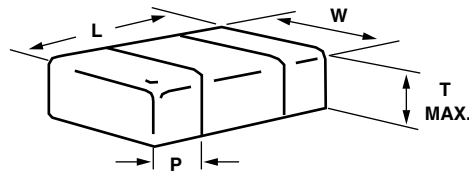
**Note**

- Detail ratings see selection chart

| ORDERING INFORMATION - MILITARY  |            |  |                                  |   |   |  |              |  |
|--|------------|--|----------------------------------|---|---|--|--------------|--|
| CDR31  | BX         | 102  | A                                | K   | Y   | S  | A            | T  |
| MILITARY STYLE   | DIELECTRIC | CAPACITANCE NOMINAL CODE   | DC VOLTAGE RATING <sup>(1)</sup> | CAPACITANCE TOLERANCE <sup>(2)</sup>  | TERMINATION   | FAILURE RATE   | MARKING      | PACKAGING  |
| CDR01<br>CDR02<br>CDR03<br>CDR04<br>CDR06<br>CDR31<br>CDR32<br>CDR33<br>CDR34<br>CDR35 | BP and BX  | Expressed in picofarads (pF). The first two digits are significant, the third is a multiplier.<br>Examples:<br>102 = 1000 pF<br>1R8 = 1.8 pF | A = 50 V<br>B = 100 V            | C = ± 0.25 pF<br>D = ± 0.5 pF<br>F = ± 1 %<br>J = ± 5 %<br>K = ± 10 %<br>M = ± 20 % | M = silver palladium<br>Y = Ni barrier with 100 % tin<br>W = Ni barrier with 100 % tin<br>Z = Ni barrier with tin / lead plate min. 4 % lead<br>U = Ni barrier solder coated (min. of 4 % lead) | M = 1.0 %<br>P = 0.1 %<br>R = 0.01 %<br>S = 0.001 %<br>Consult factory for failure rate status | A = unmarked | T = 7" reel / plastic tape<br>J = 7" reel (low quantity)<br>C = 7" reel / paper tape<br>R = 11 1/4" / 13" reel / plastic tape<br>P = 11 1/4" / 13" reel / paper tape<br>B = bulk |

**Notes**

- <sup>(1)</sup> DC voltage rating should not be exceeded in application. Other application factors may affect the MLCC performance. Consult for questions: [mlcc@vishay.com](mailto:mlcc@vishay.com)
- <sup>(2)</sup> Available tolerances please see rating chart

**DIMENSIONS** in inches (millimeters)


| MIL-PRF-55681 | STYLE | LENGTH (L)                  | WIDTH (W)                   | MAXIMUM THICKNESS (T) | TERM. (P)    |              |
|---------------|-------|-----------------------------|-----------------------------|-----------------------|--------------|--------------|
|               |       |                             |                             |                       | MINIMUM      | MAXIMUM      |
| /1            | CDR01 | 0.080 ± 0.015 (2.03 ± 0.38) | 0.050 ± 0.015 (1.27 ± 0.38) | 0.055 (1.40)          | 0.010 (0.25) | 0.030 (0.75) |
|               | CDR02 | 0.180 ± 0.015 (4.57 ± 0.38) | 0.050 ± 0.015 (1.27 ± 0.38) | 0.055 (1.40)          | 0.010 (0.25) | 0.030 (0.75) |
|               | CDR03 | 0.180 ± 0.015 (4.57 ± 0.38) | 0.080 ± 0.015 (2.03 ± 0.38) | 0.080 (2.03)          | 0.010 (0.25) | 0.030 (0.75) |
|               | CDR04 | 0.180 ± 0.015 (4.57 ± 0.38) | 0.125 ± 0.015 (3.20 ± 0.38) | 0.080 (2.03)          | 0.010 (0.25) | 0.030 (0.75) |
| /3            | CDR06 | 0.225 ± 0.020 (5.72 ± 0.51) | 0.250 ± 0.020 (6.35 ± 0.51) | 0.080 (2.03)          | 0.010 (0.25) | 0.030 (0.75) |
| /7            | CDR31 | 0.078 ± 0.008 (2.00 ± 0.20) | 0.049 ± 0.008 (1.25 ± 0.20) | 0.051 (1.30)          | 0.012 (0.30) | 0.028 (0.70) |
| /8            | CDR32 | 0.125 ± 0.008 (3.20 ± 0.20) | 0.062 ± 0.008 (1.60 ± 0.20) | 0.051 (1.30)          | 0.012 (0.30) | 0.028 (0.70) |
| /9            | CDR33 | 0.125 ± 0.010 (3.20 ± 0.25) | 0.098 ± 0.010 (2.50 ± 0.25) | 0.049 (1.25)          | 0.010 (0.25) | 0.030 (0.75) |
| /10           | CDR34 | 0.176 ± 0.010 (4.50 ± 0.25) | 0.125 ± 0.010 (3.20 ± 0.25) | 0.059 (1.50)          | 0.010 (0.25) | 0.030 (0.75) |
| /11           | CDR35 | 0.176 ± 0.012 (4.50 ± 0.30) | 0.250 ± 0.012 (6.40 ± 0.30) | 0.059 (1.50)          | 0.008 (0.20) | 0.032 (0.80) |

**MIL-C-55681 QUALIFIED, TYPE CDR**

| MILITARY TYPE DESIGNATION | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
|---------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| <b>CDR01BP</b>            |                  |                  |                       |                                      |              |             |
| CDR01BP100B_ _ _          | 100              | 10               | J, K                  | BP                                   | 100          |             |
| CDR01BP120BJ_ _           | 120              | 12               | J                     | BP                                   | 100          |             |
| CDR01BP150B_ _ _          | 150              | 15               | J, K                  | BP                                   | 100          |             |
| CDR01BP180BJ_ _           | 180              | 18               | J                     | BP                                   | 100          |             |
| CDR01BP220B_ _ _          | 220              | 22               | J, K                  | BP                                   | 100          |             |
| CDR01BP270BJ_ _           | 270              | 27               | J                     | BP                                   | 100          |             |
| CDR01BP330B_ _ _          | 330              | 33               | J, K                  | BP                                   | 100          |             |
| CDR01BP390BJ_ _           | 390              | 39               | J                     | BP                                   | 100          |             |
| CDR01BP470B_ _ _          | 470              | 47               | J, K                  | BP                                   | 100          |             |
| CDR01BP560BJ_ _           | 560              | 56               | J                     | BP                                   | 100          |             |
| CDR01BP680B_ _ _          | 680              | 68               | J, K                  | BP                                   | 100          |             |
| CDR01BP820BJ_ _           | 820              | 82               | J                     | BP                                   | 100          |             |
| CDR01BP101B_ _ _          | 101              | 100              | J, K                  | BP                                   | 100          |             |
| CDR01BP121B_ _ _          | 121              | 120              | J, K                  | BP                                   | 100          |             |
| CDR01BP151B_ _ _          | 151              | 150              | J, K                  | BP                                   | 100          |             |
| CDR01BP181B_ _ _          | 181              | 180              | J, K                  | BP                                   | 100          |             |

**Notes**

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| MIL-C-55681 QUALIFIED, TYPE CDR |                  |                  |                       |                                      |              |             |
|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR01BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR01BX121B_ _ _                | 121              | 120              | J, K                  | BX                                   | 100          |             |
| CDR01BX151B_ _ _                | 151              | 150              | J, K                  | BX                                   | 100          |             |
| CDR01BX181B_ _ _                | 181              | 180              | J, K                  | BX                                   | 100          |             |
| CDR01BX221B_ _ _                | 221              | 220              | K, M                  | BX                                   | 100          |             |
| CDR01BX271BK_ _                 | 271              | 270              | K                     | BX                                   | 100          |             |
| CDR01BX331B_ _ _                | 331              | 330              | K, M                  | BX                                   | 100          |             |
| CDR01BX391BK_ _                 | 391              | 390              | K                     | BX                                   | 100          |             |
| CDR01BX471B_ _ _                | 471              | 470              | K, M                  | BX                                   | 100          |             |
| CDR01BX561BK_ _                 | 561              | 560              | K                     | BX                                   | 100          |             |
| CDR01BX681B_ _ _                | 681              | 680              | K, M                  | BX                                   | 100          |             |
| CDR01BX821BK_ _                 | 821              | 820              | K                     | BX                                   | 100          |             |
| CDR01BX102B_ _ _                | 102              | 1000             | K, M                  | BX                                   | 100          |             |
| CDR01BX122BK_ _                 | 122              | 1200             | K                     | BX                                   | 100          |             |
| CDR01BX152B_ _ _                | 152              | 1500             | K, M                  | BX                                   | 100          |             |
| CDR01BX182BK_ _                 | 182              | 1800             | K                     | BX                                   | 100          |             |
| CDR01BX222B_ _ _                | 222              | 2200             | K, M                  | BX                                   | 100          |             |
| CDR01BX272BK_ _                 | 272              | 2700             | K                     | BX                                   | 100          |             |
| CDR01BX332B_ _ _                | 332              | 3300             | K, M                  | BX                                   | 100          |             |
| CDR01BX392AK_ _                 | 392              | 3900             | K                     | BX                                   | 50           |             |
| CDR01BX472A_ _ _                | 472              | 4700             | K, M                  | BX                                   | 50           |             |
| <b>CDR02BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR02BP221B_ _ _                | 221              | 220              | J, K                  | BP                                   | 100          |             |
| CDR02BP271BJ_ _                 | 271              | 270              | J                     | BP                                   | 100          |             |
| <b>CDR02BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR02BX392BK_ _                 | 392              | 3900             | K                     | BX                                   | 100          |             |
| CDR02BX472B_ _ _                | 472              | 4700             | K, M                  | BX                                   | 100          |             |
| CDR02BX562BK_ _                 | 562              | 5600             | K                     | BX                                   | 100          |             |
| CDR02BX682B_ _ _                | 682              | 6800             | K, M                  | BX                                   | 100          |             |
| CDR02BX822BK_ _                 | 822              | 8200             | K                     | BX                                   | 100          |             |
| CDR02BX103B_ _ _                | 103              | 10 000           | K, M                  | BX                                   | 100          |             |
| CDR02BX123AK_ _                 | 123              | 12 000           | K                     | BX                                   | 50           |             |
| CDR02BX153A_ _ _                | 153              | 15 000           | K, M                  | BX                                   | 50           |             |
| CDR02BX183AK_ _                 | 183              | 18 000           | K                     | BX                                   | 50           |             |
| CDR02BX223A_ _ _                | 223              | 22 000           | K, M                  | BX                                   | 50           |             |
| <b>CDR03BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR03BP331B_ _ _                | 331              | 330              | J, K                  | BP                                   | 100          |             |
| CDR03BP391BJ_ _                 | 391              | 390              | J                     | BP                                   | 100          |             |
| CDR03BP471B_ _ _                | 471              | 470              | J, K                  | BP                                   | 100          |             |
| CDR03BP561BJ_ _                 | 561              | 560              | J                     | BP                                   | 100          |             |
| CDR03BP681B_ _ _                | 681              | 680              | J, K                  | BP                                   | 100          |             |
| CDR03BP821BJ_ _                 | 821              | 820              | J                     | BP                                   | 100          |             |
| CDR03BP102B_ _ _                | 102              | 1000             | J, K                  | BP                                   | 100          |             |
| <b>CDR03BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR03BX123BK_ _                 | 123              | 12 000           | K                     | BX                                   | 100          |             |
| CDR03BX153B_ _ _                | 153              | 15 000           | K, M                  | BX                                   | 100          |             |
| CDR03BX183BK_ _                 | 183              | 18 000           | K                     | BX                                   | 100          |             |
| CDR03BX223B_ _ _                | 223              | 22 000           | K, M                  | BX                                   | 100          |             |
| CDR03BX273BK_ _                 | 273              | 27 000           | K                     | BX                                   | 100          |             |
| CDR03BX333B_ _ _                | 333              | 33 000           | K, M                  | BX                                   | 100          |             |
| CDR03BX393AK_ _                 | 393              | 39 000           | K                     | BX                                   | 50           |             |
| CDR03BX473A_ _ _                | 473              | 47 000           | K, M                  | BX                                   | 50           |             |
| CDR03BX563AK_ _                 | 563              | 56 000           | K                     | BX                                   | 50           |             |
| CDR03BX683A_ _ _                | 683              | 68 000           | K, M                  | BX                                   | 50           |             |

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| MIL-C-55681 QUALIFIED, TYPE CDR |                  |                  |                       |                                      |              |             |
|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR04BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR04BP122BJ_ _                 | 122              | 1200             | J                     | BP                                   | 100          |             |
| CDR04BP152B_ _ _                | 152              | 1500             | J, K                  | BP                                   | 100          |             |
| CDR04BP182BJ_ _                 | 182              | 1800             | J                     | BP                                   | 100          |             |
| CDR04BP222B_ _ _                | 222              | 2200             | J, K                  | BP                                   | 100          |             |
| CDR04BP272BJ_ _                 | 272              | 2700             | J                     | BP                                   | 100          |             |
| CDR04BP332B_ _ _                | 332              | 3300             | J, K                  | BP                                   | 100          |             |
| <b>CDR04BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR04BX393BK_ _                 | 393              | 39 000           | K                     | BX                                   | 100          |             |
| CDR04BX473B_ _ _                | 473              | 47 000           | K, M                  | BX                                   | 100          |             |
| CDR04BX563BK_ _                 | 563              | 56 000           | K                     | BX                                   | 100          |             |
| CDR04BX823AK_ _                 | 823              | 82 000           | K                     | BX                                   | 50           |             |
| CDR04BX104A_ _ _                | 104              | 100 000          | K, M                  | BX                                   | 50           |             |
| CDR04BX124AK_ _                 | 124              | 120 000          | K                     | BX                                   | 50           |             |
| CDR04BX154A_ _ _                | 154              | 150 000          | K, M                  | BX                                   | 50           |             |
| CDR04BX184AK_ _                 | 184              | 180 000          | K                     | BX                                   | 50           |             |
| <b>CDR06BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR06BX394AK_ _                 | 394              | 390 000          | K                     | BX                                   | 50           |             |
| CDR06BX474A_ _ _                | 474              | 470 000          | K, M                  | BX                                   | 50           |             |
| <b>CDR31BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR31BP1R0B_ _ _                | 1R0              | 1                | C                     | BP                                   | 100          |             |
| CDR31BP1R1B_ _ _                | 1R1              | 1.1              | C                     | BP                                   | 100          |             |
| CDR31BP1R2B_ _ _                | 1R2              | 1.2              | C                     | BP                                   | 100          |             |
| CDR31BP1R3B_ _ _                | 1R3              | 1.3              | C                     | BP                                   | 100          |             |
| CDR31BP1R5B_ _ _                | 1R5              | 1.5              | C                     | BP                                   | 100          |             |
| CDR31BP1R6B_ _ _                | 1R6              | 1.6              | C                     | BP                                   | 100          |             |
| CDR31BP1R8B_ _ _                | 1R8              | 1.8              | C                     | BP                                   | 100          |             |
| CDR31BP2R0B_ _ _                | 2R0              | 2                | C                     | BP                                   | 100          |             |
| CDR31BP2R2B_ _ _                | 2R2              | 2.2              | C                     | BP                                   | 100          |             |
| CDR31BP2R4B_ _ _                | 2R4              | 2.4              | C                     | BP                                   | 100          |             |
| CDR31BP2R7B_ _ _                | 2R7              | 2.7              | C, D                  | BP                                   | 100          |             |
| CDR31BP3R0B_ _ _                | 3R0              | 3                | C, D                  | BP                                   | 100          |             |
| CDR31BP3R3B_ _ _                | 3R3              | 3.3              | C, D                  | BP                                   | 100          |             |
| CDR31BP3R6B_ _ _                | 3R6              | 3.6              | C, D                  | BP                                   | 100          |             |
| CDR31BP3R9B_ _ _                | 3R9              | 3.9              | C, D                  | BP                                   | 100          |             |
| CDR31BP4R3B_ _ _                | 4R3              | 4.3              | C, D                  | BP                                   | 100          |             |
| CDR31BP4R7B_ _ _                | 4R7              | 4.7              | C, D                  | BP                                   | 100          |             |
| CDR31BP5R1B_ _ _                | 5R1              | 5.1              | C, D                  | BP                                   | 100          |             |
| CDR31BP5R6B_ _ _                | 5R6              | 5.6              | C, D                  | BP                                   | 100          |             |
| CDR31BP6R2B_ _ _                | 6R2              | 6.2              | C, D                  | BP                                   | 100          |             |
| CDR31BP6R8B_ _ _                | 6R8              | 6.8              | C, D                  | BP                                   | 100          |             |
| CDR31BP7R5B_ _ _                | 7R5              | 7.5              | C, D                  | BP                                   | 100          |             |
| CDR31BP8R2B_ _ _                | 8R2              | 8.2              | C, D                  | BP                                   | 100          |             |
| CDR31BP9R1B_ _ _                | 9R1              | 9.1              | C, D                  | BP                                   | 100          |             |
| CDR31BP100B_ _ _                | 100              | 10               | F, J, K               | BP                                   | 100          |             |
| CDR31BP110B_ _ _                | 110              | 11               | F, J, K               | BP                                   | 100          |             |

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| MIL-C-55681 QUALIFIED, TYPE CDR |                  |                  |                       |                                      |              |             |
|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR31BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR31BP120B_                    | 120              | 12               | F, J, K               | BP                                   | 100          |             |
| CDR31BP130B_                    | 130              | 13               | F, J, K               | BP                                   | 100          |             |
| CDR31BP150B_                    | 150              | 15               | F, J, K               | BP                                   | 100          |             |
| CDR31BP160B_                    | 160              | 16               | F, J, K               | BP                                   | 100          |             |
| CDR31BP180B_                    | 180              | 18               | F, J, K               | BP                                   | 100          |             |
| CDR31BP200B_                    | 200              | 20               | F, J, K               | BP                                   | 100          |             |
| CDR31BP220B_                    | 220              | 22               | F, J, K               | BP                                   | 100          |             |
| CDR31BP240B_                    | 240              | 24               | F, J, K               | BP                                   | 100          |             |
| CDR31BP270B_                    | 270              | 27               | F, J, K               | BP                                   | 100          |             |
| CDR31BP300B_                    | 300              | 30               | F, J, K               | BP                                   | 100          |             |
| CDR31BP330B_                    | 330              | 33               | F, J, K               | BP                                   | 100          |             |
| CDR31BP360B_                    | 360              | 36               | F, J, K               | BP                                   | 100          |             |
| CDR31BP390B_                    | 390              | 39               | F, J, K               | BP                                   | 100          |             |
| CDR31BP430B_                    | 430              | 43               | F, J, K               | BP                                   | 100          |             |
| CDR31BP470B_                    | 470              | 47               | F, J, K               | BP                                   | 100          |             |
| CDR31BP510B_                    | 510              | 51               | F, J, K               | BP                                   | 100          |             |
| CDR31BP560B_                    | 560              | 56               | F, J, K               | BP                                   | 100          |             |
| CDR31BP620B_                    | 620              | 62               | F, J, K               | BP                                   | 100          |             |
| CDR31BP680B_                    | 680              | 68               | F, J, K               | BP                                   | 100          |             |
| CDR31BP750B_                    | 750              | 75               | F, J, K               | BP                                   | 100          |             |
| CDR31BP820B_                    | 820              | 82               | F, J, K               | BP                                   | 100          |             |
| CDR31BP910B_                    | 910              | 91               | F, J, K               | BP                                   | 100          |             |
| CDR31BP101B_                    | 101              | 100              | F, J, K               | BP                                   | 100          |             |
| CDR31BP111B_                    | 111              | 110              | F, J, K               | BP                                   | 100          |             |
| CDR31BP121B_                    | 121              | 120              | F, J, K               | BP                                   | 100          |             |
| CDR31BP131B_                    | 131              | 130              | F, J, K               | BP                                   | 100          |             |
| CDR31BP151B_                    | 151              | 150              | F, J, K               | BP                                   | 100          |             |
| CDR31BP161B_                    | 161              | 160              | F, J, K               | BP                                   | 100          |             |
| CDR31BP181B_                    | 181              | 180              | F, J, K               | BP                                   | 100          |             |
| CDR31BP201B_                    | 201              | 200              | F, J, K               | BP                                   | 100          |             |
| CDR31BP221B_                    | 221              | 220              | F, J, K               | BP                                   | 100          |             |
| CDR31BP241B_                    | 241              | 240              | F, J, K               | BP                                   | 100          |             |
| CDR31BP271B_                    | 271              | 270              | F, J, K               | BP                                   | 100          |             |
| CDR31BP301B_                    | 301              | 300              | F, J, K               | BP                                   | 100          |             |
| CDR31BP331B_                    | 331              | 330              | F, J, K               | BP                                   | 100          |             |
| CDR31BP361B_                    | 361              | 360              | F, J, K               | BP                                   | 100          |             |
| CDR31BP391B_                    | 391              | 390              | F, J, K               | BP                                   | 100          |             |
| CDR31BP431B_                    | 431              | 430              | F, J, K               | BP                                   | 100          |             |
| CDR31BP471B_                    | 471              | 470              | F, J, K               | BP                                   | 100          |             |
| CDR31BP511A_                    | 511              | 510              | F, J, K               | BP                                   | 50           |             |
| CDR31BP561A_                    | 561              | 560              | F, J, K               | BP                                   | 50           |             |
| CDR31BP621A_                    | 621              | 620              | F, J, K               | BP                                   | 50           |             |
| CDR31BP681A_                    | 681              | 680              | F, J, K               | BP                                   | 50           |             |

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|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR31BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR31BX471B_ _ _                | 471              | 470              | K, M                  | BX                                   | 100          |             |
| CDR31BX561B_ _ _                | 561              | 560              | K, M                  | BX                                   | 100          |             |
| CDR31BX681B_ _ _                | 681              | 680              | K, M                  | BX                                   | 100          |             |
| CDR31BX821B_ _ _                | 821              | 820              | K, M                  | BX                                   | 100          |             |
| CDR31BX102B_ _ _                | 102              | 1000             | K, M                  | BX                                   | 100          |             |
| CDR31BX122B_ _ _                | 122              | 1200             | K, M                  | BX                                   | 100          |             |
| CDR31BX152B_ _ _                | 152              | 1500             | K, M                  | BX                                   | 100          |             |
| CDR31BX182B_ _ _                | 182              | 1800             | K, M                  | BX                                   | 100          |             |
| CDR31BX222B_ _ _                | 222              | 2200             | K, M                  | BX                                   | 100          |             |
| CDR31BX272B_ _ _                | 272              | 2700             | K, M                  | BX                                   | 100          |             |
| CDR31BX332B_ _ _                | 332              | 3300             | K, M                  | BX                                   | 100          |             |
| CDR31BX392B_ _ _                | 392              | 3900             | K, M                  | BX                                   | 100          |             |
| CDR31BX472B_ _ _                | 472              | 4700             | K, M                  | BX                                   | 100          |             |
| CDR31BX562A_ _ _                | 562              | 5600             | K, M                  | BX                                   | 50           |             |
| CDR31BX682A_ _ _                | 682              | 6800             | K, M                  | BX                                   | 50           |             |
| CDR31BX822A_ _ _                | 822              | 8200             | K, M                  | BX                                   | 50           |             |
| CDR31BX103A_ _ _                | 103              | 10 000           | K, M                  | BX                                   | 50           |             |
| CDR31BX123A_ _ _                | 123              | 12 000           | K, M                  | BX                                   | 50           |             |
| CDR31BX153A_ _ _                | 153              | 15 000           | K, M                  | BX                                   | 50           |             |
| CDR31BX183A_ _ _                | 183              | 18 000           | K, M                  | BX                                   | 50           |             |
| <b>CDR32BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR32BP1R0B_ _ _                | 1R0              | 1                | C                     | BP                                   | 100          |             |
| CDR32BP1R1B_ _ _                | 1R1              | 1.1              | C                     | BP                                   | 100          |             |
| CDR32BP1R2B_ _ _                | 1R2              | 1.2              | C                     | BP                                   | 100          |             |
| CDR32BP1R3B_ _ _                | 1R3              | 1.3              | C                     | BP                                   | 100          |             |
| CDR32BP1R5B_ _ _                | 1R5              | 1.5              | C                     | BP                                   | 100          |             |
| CDR32BP1R6B_ _ _                | 1R6              | 1.6              | C                     | BP                                   | 100          |             |
| CDR32BP1R8B_ _ _                | 1R8              | 1.8              | C                     | BP                                   | 100          |             |
| CDR32BP2R0B_ _ _                | 2R0              | 2                | C                     | BP                                   | 100          |             |
| CDR32BP2R2B_ _ _                | 2R2              | 2.2              | C                     | BP                                   | 100          |             |
| CDR32BP2R4B_ _ _                | 2R4              | 2.4              | C                     | BP                                   | 100          |             |
| CDR32BP2R7B_ _ _                | 2R7              | 2.7              | C, D                  | BP                                   | 100          |             |
| CDR32BP3R0B_ _ _                | 3R0              | 3                | C, D                  | BP                                   | 100          |             |
| CDR32BP3R3B_ _ _                | 3R3              | 3.3              | C, D                  | BP                                   | 100          |             |
| CDR32BP3R6B_ _ _                | 3R6              | 3.6              | C, D                  | BP                                   | 100          |             |
| CDR32BP3R9B_ _ _                | 3R9              | 3.9              | C, D                  | BP                                   | 100          |             |
| CDR32BP4R3B_ _ _                | 4R3              | 4.3              | C, D                  | BP                                   | 100          |             |
| CDR32BP4R7B_ _ _                | 4R7              | 4.7              | C, D                  | BP                                   | 100          |             |
| CDR32BP5R1B_ _ _                | 5R1              | 5.1              | C, D                  | BP                                   | 100          |             |
| CDR32BP5R6B_ _ _                | 5R6              | 5.6              | C, D                  | BP                                   | 100          |             |
| CDR32BP6R2B_ _ _                | 6R2              | 6.2              | C, D                  | BP                                   | 100          |             |
| CDR32BP6R8B_ _ _                | 6R8              | 6.8              | C, D                  | BP                                   | 100          |             |
| CDR32BP7R5B_ _ _                | 7R5              | 7.5              | C, D                  | BP                                   | 100          |             |
| CDR32BP8R2B_ _ _                | 8R2              | 8.2              | C, D                  | BP                                   | 100          |             |
| CDR32BP9R1B_ _ _                | 9R1              | 9.1              | C, D                  | BP                                   | 100          |             |
| CDR32BP100B_ _ _                | 100              | 10               | F, J, K               | BP                                   | 100          |             |

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|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR32BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR32BP110B_---                 | 110              | 11               | F, J, K               | BP                                   | 100          |             |
| CDR32BP120B_---                 | 120              | 12               | F, J, K               | BP                                   | 100          |             |
| CDR32BP130B_---                 | 130              | 13               | F, J, K               | BP                                   | 100          |             |
| CDR32BP150B_---                 | 150              | 15               | F, J, K               | BP                                   | 100          |             |
| CDR32BP160B_---                 | 160              | 16               | F, J, K               | BP                                   | 100          |             |
| CDR32BP180B_---                 | 180              | 18               | F, J, K               | BP                                   | 100          |             |
| CDR32BP200B_---                 | 200              | 20               | F, J, K               | BP                                   | 100          |             |
| CDR32BP220B_---                 | 220              | 22               | F, J, K               | BP                                   | 100          |             |
| CDR32BP240B_---                 | 240              | 24               | F, J, K               | BP                                   | 100          |             |
| CDR32BP270B_---                 | 270              | 27               | F, J, K               | BP                                   | 100          |             |
| CDR32BP300B_---                 | 300              | 30               | F, J, K               | BP                                   | 100          |             |
| CDR32BP330B_---                 | 330              | 33               | F, J, K               | BP                                   | 100          |             |
| CDR32BP360B_---                 | 360              | 36               | F, J, K               | BP                                   | 100          |             |
| CDR32BP390B_---                 | 390              | 39               | F, J, K               | BP                                   | 100          |             |
| CDR32BP430B_---                 | 430              | 43               | F, J, K               | BP                                   | 100          |             |
| CDR32BP470B_---                 | 470              | 47               | F, J, K               | BP                                   | 100          |             |
| CDR32BP510B_---                 | 510              | 51               | F, J, K               | BP                                   | 100          |             |
| CDR32BP560B_---                 | 560              | 56               | F, J, K               | BP                                   | 100          |             |
| CDR32BP620B_---                 | 620              | 62               | F, J, K               | BP                                   | 100          |             |
| CDR32BP680B_---                 | 680              | 68               | F, J, K               | BP                                   | 100          |             |
| CDR32BP750B_---                 | 750              | 75               | F, J, K               | BP                                   | 100          |             |
| CDR32BP820B_---                 | 820              | 82               | F, J, K               | BP                                   | 100          |             |
| CDR32BP910B_---                 | 910              | 91               | F, J, K               | BP                                   | 100          |             |
| CDR32BP101B_---                 | 101              | 100              | F, J, K               | BP                                   | 100          |             |
| CDR32BP111B_---                 | 111              | 110              | F, J, K               | BP                                   | 100          |             |
| CDR32BP121B_---                 | 121              | 120              | F, J, K               | BP                                   | 100          |             |
| CDR32BP131B_---                 | 131              | 130              | F, J, K               | BP                                   | 100          |             |
| CDR32BP151B_---                 | 151              | 150              | F, J, K               | BP                                   | 100          |             |
| CDR32BP161B_---                 | 161              | 160              | F, J, K               | BP                                   | 100          |             |
| CDR32BP181B_---                 | 181              | 180              | F, J, K               | BP                                   | 100          |             |
| CDR32BP201B_---                 | 201              | 200              | F, J, K               | BP                                   | 100          |             |
| CDR32BP221B_---                 | 221              | 220              | F, J, K               | BP                                   | 100          |             |
| CDR32BP241B_---                 | 241              | 240              | F, J, K               | BP                                   | 100          |             |
| CDR32BP271B_---                 | 271              | 270              | F, J, K               | BP                                   | 100          |             |
| CDR32BP301B_---                 | 301              | 300              | F, J, K               | BP                                   | 100          |             |
| CDR32BP331B_---                 | 331              | 330              | F, J, K               | BP                                   | 100          |             |
| CDR32BP361B_---                 | 361              | 360              | F, J, K               | BP                                   | 100          |             |
| CDR32BP391B_---                 | 391              | 390              | F, J, K               | BP                                   | 100          |             |
| CDR32BP431B_---                 | 431              | 430              | F, J, K               | BP                                   | 100          |             |
| CDR32BP471B_---                 | 471              | 470              | F, J, K               | BP                                   | 100          |             |
| CDR32BP511B_---                 | 511              | 510              | F, J, K               | BP                                   | 100          |             |
| CDR32BP561B_---                 | 561              | 560              | F, J, K               | BP                                   | 100          |             |
| CDR32BP621B_---                 | 621              | 620              | F, J, K               | BP                                   | 100          |             |
| CDR32BP681B_---                 | 681              | 680              | F, J, K               | BP                                   | 100          |             |
| CDR32BP751B_---                 | 751              | 750              | F, J, K               | BP                                   | 100          |             |
| CDR32BP821B_---                 | 821              | 820              | F, J, K               | BP                                   | 100          |             |

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|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR32BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR32BP911B_ __                 | 911              | 910              | F, J, K               | BP                                   | 100          |             |
| CDR32BP102B_ __                 | 102              | 1000             | F, J, K               | BP                                   | 100          |             |
| CDR32BP112A_ __                 | 112              | 1100             | F, J, K               | BP                                   | 50           |             |
| CDR32BP122A_ __                 | 122              | 1200             | F, J, K               | BP                                   | 50           |             |
| CDR32BP132A_ __                 | 132              | 1300             | F, J, K               | BP                                   | 50           |             |
| CDR32BP152A_ __                 | 152              | 1500             | F, J, K               | BP                                   | 50           |             |
| CDR32BP162A_ __                 | 162              | 1600             | F, J, K               | BP                                   | 50           |             |
| CDR32BP182A_ __                 | 182              | 1800             | F, J, K               | BP                                   | 50           |             |
| CDR32BP202A_ __                 | 202              | 2000             | F, J, K               | BP                                   | 50           |             |
| CDR32BP222A_ __                 | 222              | 2200             | F, J, K               | BP                                   | 50           |             |
| <b>CDR32BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR32BX472B_ __                 | 472              | 4700             | K, M                  | BX                                   | 100          |             |
| CDR32BX562B_ __                 | 562              | 5600             | K, M                  | BX                                   | 100          |             |
| CDR32BX682B_ __                 | 682              | 6800             | K, M                  | BX                                   | 100          |             |
| CDR32BX822B_ __                 | 822              | 8200             | K, M                  | BX                                   | 100          |             |
| CDR32BX103B_ __                 | 103              | 10 000           | K, M                  | BX                                   | 100          |             |
| CDR32BX123B_ __                 | 123              | 12 000           | K, M                  | BX                                   | 100          |             |
| CDR32BX153B_ __                 | 153              | 15 000           | K, M                  | BX                                   | 100          |             |
| CDR32BX183A_ __                 | 183              | 18 000           | K, M                  | BX                                   | 50           |             |
| CDR32BX223A_ __                 | 223              | 22 000           | K, M                  | BX                                   | 50           |             |
| CDR32BX273A_ __                 | 273              | 27 000           | K, M                  | BX                                   | 50           |             |
| CDR32BX333A_ __                 | 333              | 33 000           | K, M                  | BX                                   | 50           |             |
| CDR32BX393A_ __                 | 393              | 39 000           | K, M                  | BX                                   | 50           |             |
| <b>CDR33BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR33BP102B_ __                 | 102              | 1000             | F, J, K               | BP                                   | 100          |             |
| CDR33BP112B_ __                 | 112              | 1100             | F, J, K               | BP                                   | 100          |             |
| CDR33BP122B_ __                 | 122              | 1200             | F, J, K               | BP                                   | 100          |             |
| CDR33BP132B_ __                 | 132              | 1300             | F, J, K               | BP                                   | 100          |             |
| CDR33BP152B_ __                 | 152              | 1500             | F, J, K               | BP                                   | 100          |             |
| CDR33BP162B_ __                 | 162              | 1600             | F, J, K               | BP                                   | 100          |             |
| CDR33BP182B_ __                 | 182              | 1800             | F, J, K               | BP                                   | 100          |             |
| CDR33BP202B_ __                 | 202              | 2000             | F, J, K               | BP                                   | 100          |             |
| CDR33BP222B_ __                 | 222              | 2200             | F, J, K               | BP                                   | 100          |             |
| CDR33BP242A_ __                 | 242              | 2400             | F, J, K               | BP                                   | 50           |             |
| CDR33BP272A_ __                 | 272              | 2700             | F, J, K               | BP                                   | 50           |             |
| CDR33BP302A_ __                 | 302              | 3000             | F, J, K               | BP                                   | 50           |             |
| CDR33BP332A_ __                 | 332              | 3300             | F, J, K               | BP                                   | 50           |             |
| <b>CDR33BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR33BX153B_ __                 | 153              | 15 000           | K, M                  | BX                                   | 100          |             |
| CDR33BX183B_ __                 | 183              | 18 000           | K, M                  | BX                                   | 100          |             |
| CDR33BX223B_ __                 | 223              | 22 000           | K, M                  | BX                                   | 100          |             |
| CDR33BX273B_ __                 | 273              | 27 000           | K, M                  | BX                                   | 100          |             |
| CDR33BX393A_ __                 | 393              | 39 000           | K, M                  | BX                                   | 50           |             |
| CDR33BX473A_ __                 | 473              | 47 000           | K, M                  | BX                                   | 50           |             |
| CDR33BX563A_ __                 | 563              | 56 000           | K, M                  | BX                                   | 50           |             |
| CDR33BX683A_ __                 | 683              | 68 000           | K, M                  | BX                                   | 50           |             |
| CDR33BX823A_ __                 | 823              | 82 000           | K, M                  | BX                                   | 50           |             |
| CDR33BX104A_ __                 | 104              | 100 000          | K, M                  | BX                                   | 50           |             |

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|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR34BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR34BP222B_ _ _                | 222              | 2200             | F, J, K               | BP                                   | 100          |             |
| CDR34BP242B_ _ _                | 242              | 2400             | F, J, K               | BP                                   | 100          |             |
| CDR34BP272B_ _ _                | 272              | 2700             | F, J, K               | BP                                   | 100          |             |
| CDR34BP302B_ _ _                | 302              | 3000             | F, J, K               | BP                                   | 100          |             |
| CDR34BP332B_ _ _                | 332              | 3300             | F, J, K               | BP                                   | 100          |             |
| CDR34BP362B_ _ _                | 362              | 3600             | F, J, K               | BP                                   | 100          |             |
| CDR34BP392B_ _ _                | 392              | 3900             | F, J, K               | BP                                   | 100          |             |
| CDR34BP432B_ _ _                | 432              | 4300             | F, J, K               | BP                                   | 100          |             |
| CDR34BP472B_ _ _                | 472              | 4700             | F, J, K               | BP                                   | 100          |             |
| CDR34BP512A_ _ _                | 512              | 5100             | F, J, K               | BP                                   | 50           |             |
| CDR34BP562A_ _ _                | 562              | 5600             | F, J, K               | BP                                   | 50           |             |
| CDR34BP622A_ _ _                | 622              | 6200             | F, J, K               | BP                                   | 50           |             |
| CDR34BP682A_ _ _                | 682              | 6800             | F, J, K               | BP                                   | 50           |             |
| CDR34BP752A_ _ _                | 752              | 7500             | F, J, K               | BP                                   | 50           |             |
| CDR34BP822A_ _ _                | 822              | 8200             | F, J, K               | BP                                   | 50           |             |
| CDR34BP912A_ _ _                | 912              | 9100             | F, J, K               | BP                                   | 50           |             |
| CDR34BP103A_ _ _                | 103              | 10 000           | F, J, K               | BP                                   | 50           |             |
| <b>CDR34BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR34BX273B_ _ _                | 273              | 27 000           | K, M                  | BX                                   | 100          |             |
| CDR34BX333B_ _ _                | 333              | 33 000           | K, M                  | BX                                   | 100          |             |
| CDR34BX393B_ _ _                | 393              | 39 000           | K, M                  | BX                                   | 100          |             |
| CDR34BX473B_ _ _                | 473              | 47 000           | K, M                  | BX                                   | 100          |             |
| CDR34BX563B_ _ _                | 563              | 56 000           | K, M                  | BX                                   | 100          |             |
| CDR34BX104A_ _ _                | 104              | 100 000          | K, M                  | BX                                   | 50           |             |
| CDR34BX124A_ _ _                | 124              | 120 000          | K, M                  | BX                                   | 50           |             |
| CDR34BX154A_ _ _                | 154              | 150 000          | K, M                  | BX                                   | 50           |             |
| CDR34BX184A_ _ _                | 184              | 180 000          | K, M                  | BX                                   | 50           |             |
| <b>CDR35BP</b>                  |                  |                  |                       |                                      |              |             |
| CDR35BP472B_ _ _                | 472              | 4700             | F, J, K               | BP                                   | 100          |             |
| CDR35BP512B_ _ _                | 512              | 5100             | F, J, K               | BP                                   | 100          |             |
| CDR35BP562B_ _ _                | 562              | 5600             | F, J, K               | BP                                   | 100          |             |
| CDR35BP622B_ _ _                | 622              | 6200             | F, J, K               | BP                                   | 100          |             |
| CDR35BP682B_ _ _                | 682              | 6800             | F, J, K               | BP                                   | 100          |             |
| CDR35BP752B_ _ _                | 752              | 7500             | F, J, K               | BP                                   | 100          |             |
| CDR35BP822B_ _ _                | 822              | 8200             | F, J, K               | BP                                   | 100          |             |
| CDR35BP912B_ _ _                | 912              | 9100             | F, J, K               | BP                                   | 100          |             |
| CDR35BP103B_ _ _                | 103              | 10 000           | F, J, K               | BP                                   | 100          |             |
| CDR35BP113A_ _ _                | 113              | 11 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP123A_ _ _                | 123              | 12 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP133A_ _ _                | 133              | 13 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP153A_ _ _                | 153              | 15 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP163A_ _ _                | 163              | 16 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP183A_ _ _                | 183              | 18 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP203A_ _ _                | 203              | 20 000           | F, J, K               | BP                                   | 50           |             |
| CDR35BP223A_ _ _                | 223              | 22 000           | F, J, K               | BP                                   | 50           |             |

Notes

- RoHS-compliant except when supplied with lead (Pb)-containing terminations, codes "Z" and "U"
- Not RoHS-compliant



| MIL-C-55681 QUALIFIED, TYPE CDR |                  |                  |                       |                                      |              |             |
|---------------------------------|------------------|------------------|-----------------------|--------------------------------------|--------------|-------------|
| MILITARY TYPE DESIGNATION       | CAPACITANCE CODE | CAPACITANCE (pF) | CAPACITANCE TOLERANCE | RATED TEMP. AND VOLTAGE TEMP. LIMITS | VOLTAGE (DC) | RoHS STATUS |
| <b>CDR35BX</b>                  |                  |                  |                       |                                      |              |             |
| CDR35BX563B_ _ _                | 563              | 56 000           | K, M                  | BX                                   | 100          |             |
| CDR35BX683B_ _ _                | 683              | 68 000           | K, M                  | BX                                   | 100          |             |
| CDR35BX823B_ _ _                | 823              | 82 000           | K, M                  | BX                                   | 100          |             |
| CDR35BX104B_ _ _                | 104              | 100 000          | K, M                  | BX                                   | 100          |             |
| CDR35BX124B_ _ _                | 124              | 120 000          | K, M                  | BX                                   | 100          |             |
| CDR35BX154B_ _ _                | 154              | 150 000          | K, M                  | BX                                   | 100          |             |
| CDR35BX184A_ _ _                | 184              | 180 000          | K, M                  | BX                                   | 50           |             |
| CDR35BX224A_ _ _                | 224              | 220 000          | K, M                  | BX                                   | 50           |             |
| CDR35BX274A_ _ _                | 274              | 270 000          | K, M                  | BX                                   | 50           |             |
| CDR35BX334A_ _ _                | 334              | 330 000          | K, M                  | BX                                   | 50           |             |
| CDR35BX394A_ _ _                | 394              | 390 000          | K, M                  | BX                                   | 50           |             |
| CDR35BX474A_ _ _                | 474              | 470 000          | K, M                  | BX                                   | 50           |             |

**Notes**

- RoHS-compliant except when supplied with lead (Pb)-containing terminations, codes "Z" and "U"  
 Not RoHS-compliant

| TAPE AND REEL QUANTITIES <sup>(1)(2)(3)</sup> |           |           |                    |      |      |                                 |        |      |
|---|-----------|-----------|--------------------|------|------|---------------------------------|--------|------|
| STYLES  | BODY SIZE | TAPE SIZE | 7" REEL QUANTITIES |      |      | 11 1/4" AND 13" REEL QUANTITIES |        | BULK |
|   |           |           | PACKAGING CODE     |      |      | PACKAGING CODE                  |        |      |
|   |           |           | "C"                | "T"  | "J"  | "P"                             | "R"    |      |
| CDR01,<br>CDR31                               | 0805      | 8 mm      | 3000               | 3000 | 1000 | 10 000                          | 10 000 | 100  |
| CDR32   | 1206      | 8 mm      | n/a                | 3000 | 1000 | n/a                             | 10 000 | 100  |
| CDR33   | 1210      | 8 mm      | n/a                | 3000 | 1000 | n/a                             | 10 000 | 100  |
| CDR02   | 1805      | 12 mm     | n/a                | 2000 | 500  | n/a                             | 10 000 | 100  |
| CDR03   | 1808      | 12 mm     | n/a                | 2000 | 500  | n/a                             | 10 000 | 100  |
| CDR04,<br>CDR34                               | 1812      | 12 mm     | n/a                | 1000 | 500  | n/a                             | 4000   | 100  |
| CDR35   | 1825      | 12 mm     | n/a                | 1000 | 500  | n/a                             | 4000   | 100  |
| CDR06   | 2225      | 12 mm     | n/a                | 500  | 250  | n/a                             | 4000   | 100  |

**Notes**

- (1) Vishay Vitramon uses embossed plastic carrier tape and punched paper carrier tape  
 (2) Paper tape is not available for case sizes > 1206 or for component thickness > 0.035" (0.89 mm)  
 (3) DC voltage rating should not be exceeded in application

| STORAGE AND HANDLING CONDITIONS  |
|--|
| (1) Store the components at 5 °C to +40 °C ambient temperature and ≤ 70 % related humidity conditions.<br>(2) The product is recommended to be used within a time-frame of 2 years after shipment.<br>Check solderability in case extended shelf life beyond the expiry date is needed.<br><br><b>Precautions:</b><br>a. Do not store products in an environment containing corrosive elements, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. This may cause corrosion or oxidization of the terminations, which can easily lead to poor soldering.<br>b. Store products on the shelf and avoid exposure to moisture or dust.<br>c. Do not expose products to excessive shock, vibration, direct sunlight and so on. |



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