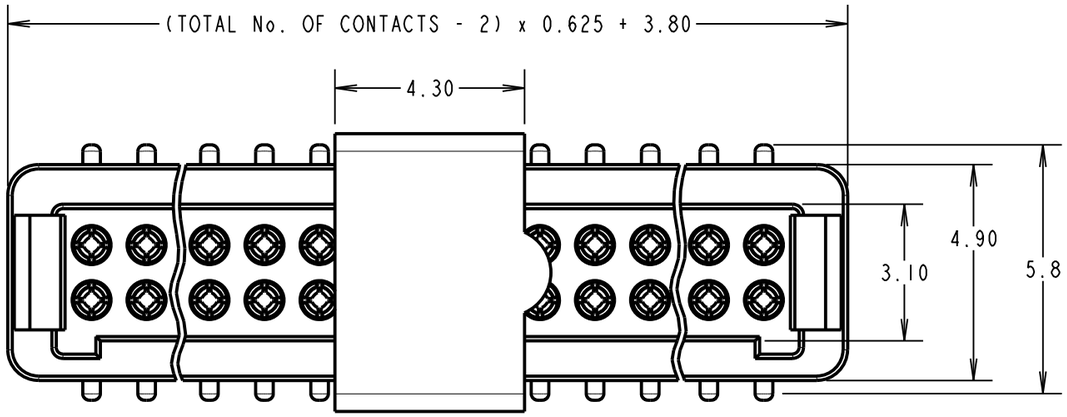
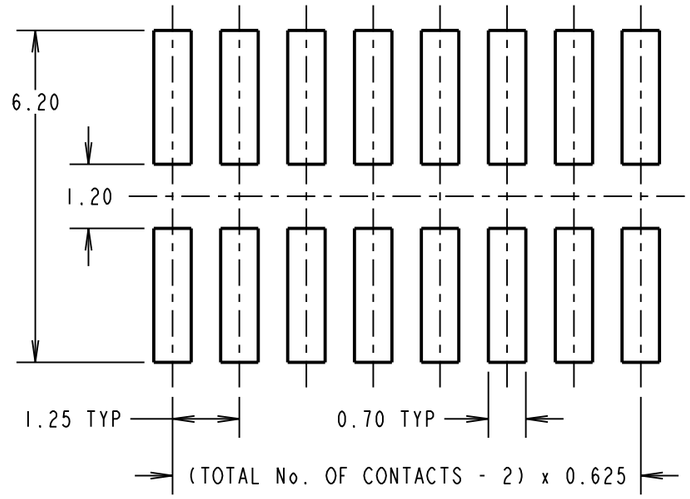
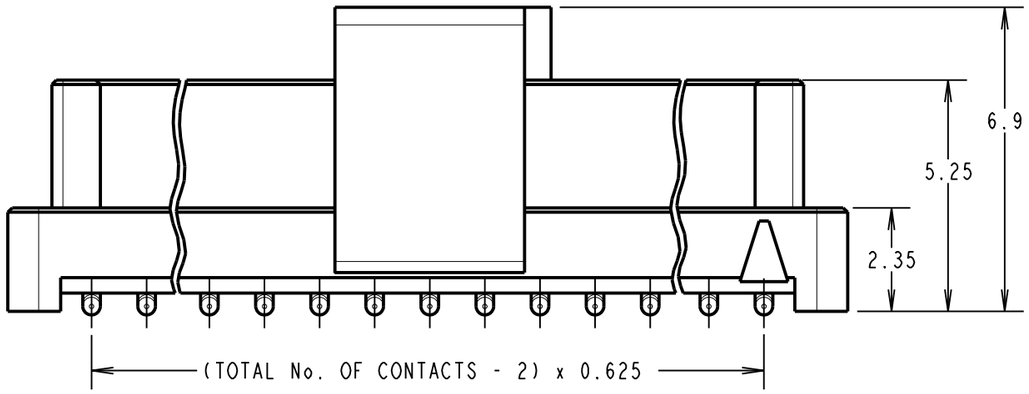
Customer Information Sheet

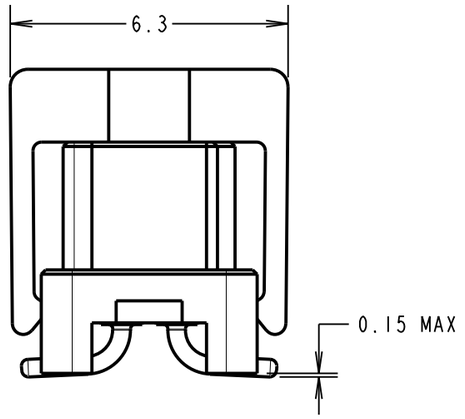
DRAWING No.: G125-FSIXX05L0X	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm





RECOMMENDED PCB LAYOUT

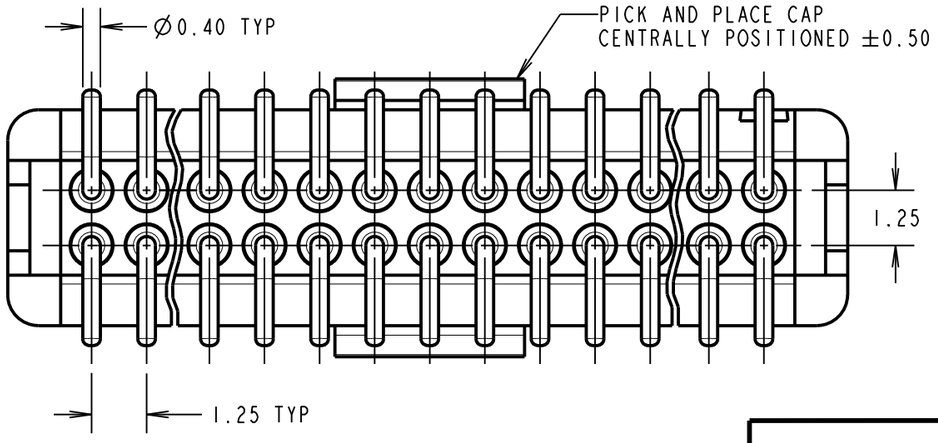




ORDER CODE:
G125-FSIXX05L0X

TOTAL No. OF CONTACTS:
06, 10, 12, 16, 20, 26, 34, 50

PACK TYPE:
R = 400PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)



CONNECTOR DETAILS AND PCB LAYOUT ONLY
SEE SHEET 3 FOR TAPE AND REEL DETAILS

NOTES:
1. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
2. SEE SHEET 3 FOR TAPE & REEL DETAILS OF THIS PRODUCT.
3. CO-PLANARITY OF SMT TAILS NOT TO EXCEED 0.10mm.

SF	1	22.11.13	12281
NAME	ISS.	DATE	C/NOTE
APPROVED:	S.FLOWER		
CHECKED:	S.BENNETT		
DRAWN:	S.FLOWER		
CUSTOMER REF.:			
ASSEMBLY DRG:			

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE SHEET 4

FINISH:

S/AREA: mm²

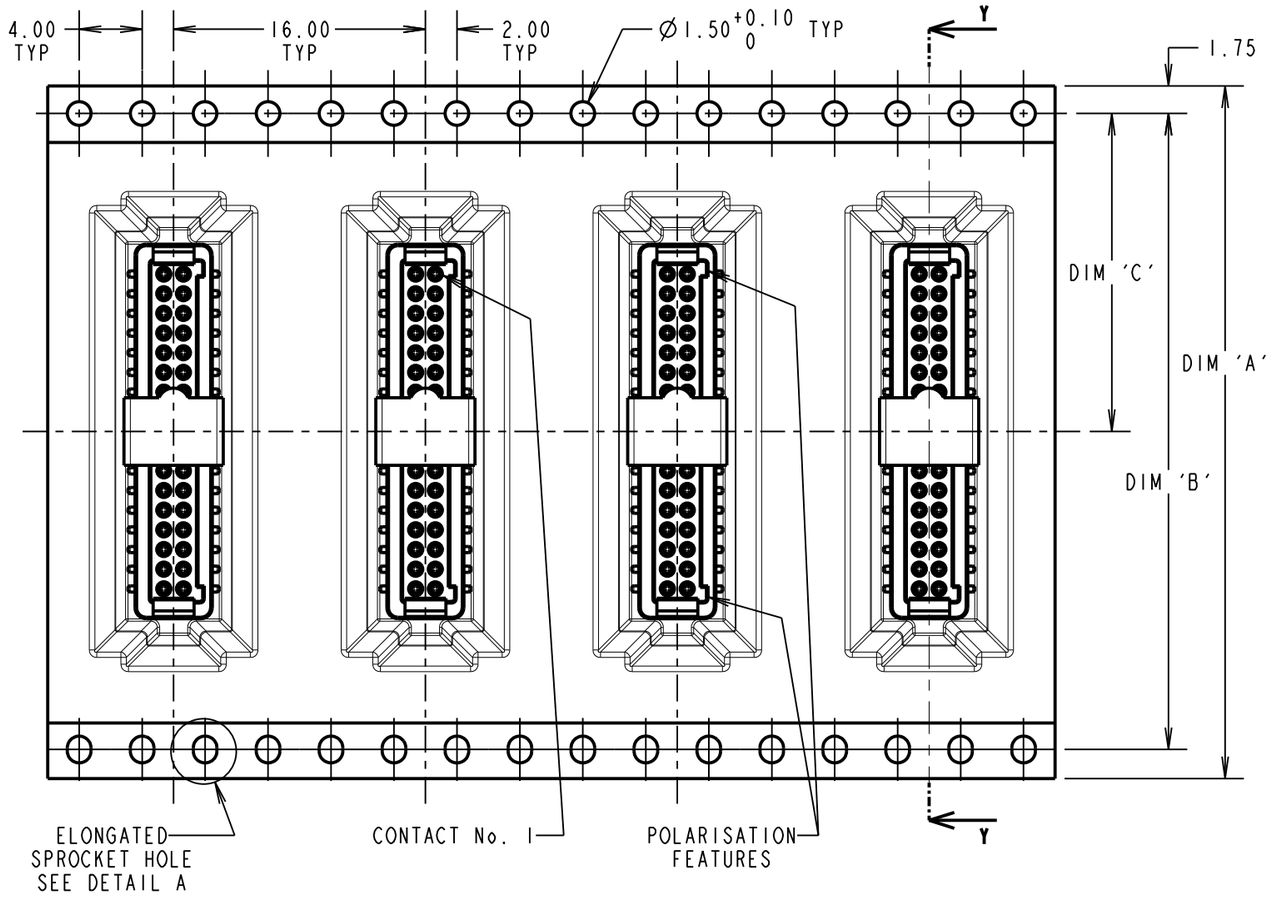
TITLE: 1.25mm GECKO FEMALE VERTICAL SMT CONNECTORS IN TAPE & REEL

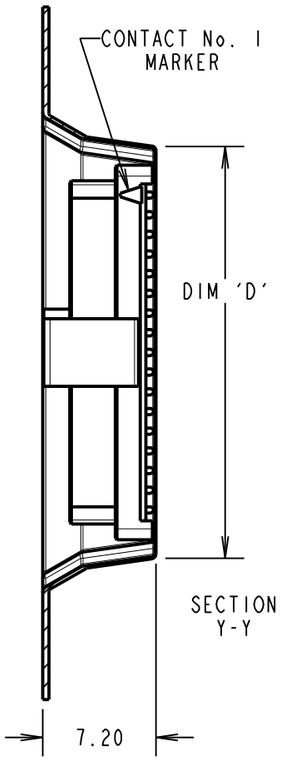
DRAWING NUMBER: G125-FSIXX05L0X

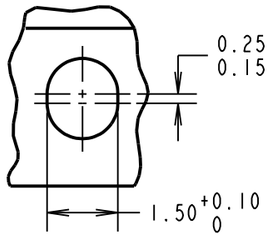
SHT 2 OF 4

Customer Information Sheet

DRAWING No.: G125-FSIXX05L0X	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm



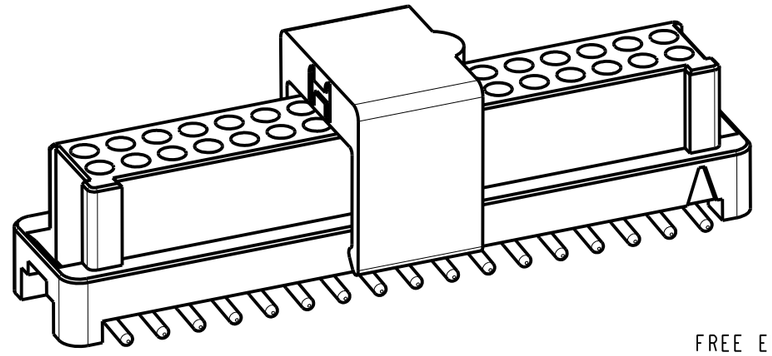


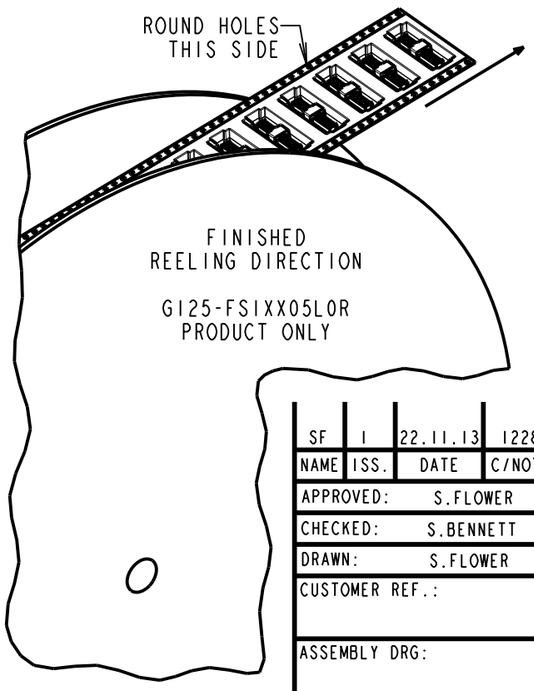


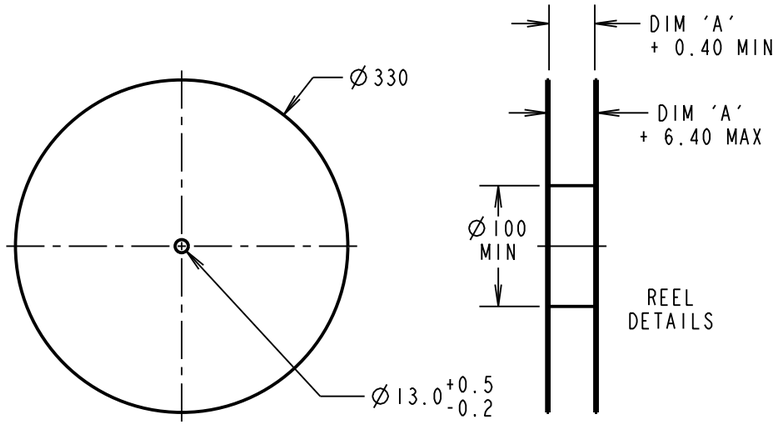
ORDER CODE:
G125-FSIXX05L0X

TOTAL No. OF CONTACTS:
06, 10, 12, 16, 20, 26, 34, 50

PACK TYPE:
R = 400PCS IN TAPE AND REEL
P = EACH (CUT TAPE LENGTHS)







REELED PART No.	LOOSE PART No.	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'
G125-FVX0605L0R	G125-FVX0605L0P	24.0±0.3	NO ELONGATED HOLE	11.50	(8.6)
G125-FVX1005L0R	G125-FVX1005L0P				(11.1)
G125-FVX1205L0R	G125-FVX1205L0P	32.0±0.3	28.40	14.20	(12.4)
G125-FVX1605L0R	G125-FVX1605L0P				(14.9)
G125-FVX2005L0R	G125-FVX2005L0P	44.0±0.3	40.40	20.2±0.15	(17.4)
G125-FVX2605L0R	G125-FVX2605L0P				(21.1)
G125-FVX3405L0R	G125-FVX3405L0P				(26.1)
G125-FVX5005L0R	G125-FVX5005L0P	56.0±0.3	52.40	26.2±0.15	(36.1)

NOTES:
1. FOR "R" QUANTITY OF COMPONENTS PER REEL = 250.
2. FOR "P" QUANTITIES ARE EACH AND CUT FROM G125-FVX3405L0R.
3. THIS PRODUCT IS TAPED AND REELED IN ACCORDANCE WITH EIA-481-2-A (ELECTRONIC INDUSTRIES ASSOCIATION).
4. FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C125XX (LATEST ISSUE).
5. COMPONENTS ARE ORIENTATED IN TAPE POCKETS SO THAT THE POLARISING FEATURES ARE FACING TOWARDS THE FREE END.
6. ELONGATED SPROCKET HOLE NOT PRESENT ON 06 & 10 POSITIONS.

SF	1	22.11.13	12281
NAME	ISS.	DATE	C/NOTE

APPROVED: S.FLOWER
CHECKED: S.BENNETT
DRAWN: S.FLOWER
CUSTOMER REF.:
ASSEMBLY DRG:

HARWIN
www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE SHEET 4
FINISH:
S/AREA: mm²

TITLE: 1.25mm GECKO FEMALE VERTICAL SMT CONNECTORS IN TAPE & REEL
DRAWING NUMBER: G125-FSIXX05L0X
SHT 3 OF 4

Customer Information Sheet

DRAWING No.: G125-SERIES COMPONENT SPECIFICATION	IF IN DOUBT - ASK	©	NOT TO SCALE	THIRD ANGLE PROJECTION	ALL DIMENSIONS IN mm

SPECIFICATIONS:

MATERIALS:
MOULDING, PICK & PLACE CAP:
POLYAMIDE, PA4T-GF30 FR(40) UL94V-0,
HALOGEN FREE, FREE OF RED PHOSPHORUS

CONTACTS:
MALE PC-TAIL/SMT = PHOSPHOR BRONZE
MALE CRIMP = BRASS
ALL FEMALE CONTACTS = COPPER ALLOY

LATCHES:
COPPER NICKEL TIN ALLOY

BACK POTTING COMPOUND (CABLE ASSEMBLIES ONLY):
STYCAST 2651 MM BACK POTTING WITH CATALYST 9

FINISH:
ALL CONTACTS:
0.2-0.3µ GOLD OVER NICKEL
LATCHES:
3.0µ 100% TIN OVER NICKEL

MECHANICAL:
DURABILITY = 1000 OPERATIONS
INSERTION FORCE = 2.8N MAX
WITHDRAWAL FORCE = 0.2N MIN

ENVIRONMENTAL:
CLASSIFICATION: 65/150/56 DAYS AT 93% RH

TEMPERATURE RANGE:
EIA-364-32 : 2000 TEST CONDITION IV, DWELL
30mins, 5 CYCLES -65°C TO +150°C

* EIA-364-28D : 1999: TEST CONDITION IV: VIBRATION SEVERITY:
10Hz TO 2000Hz, 1.5MM, 198 mm/s² (20G). DURATION 2Hr

* EIA-364-27B : 1996: TEST CONDITION E SHOCK SEVERITY: 981 mm/s²
(100G) FOR 6ms IN Z AXIS, 490 mm/s² (50G) FOR 11m/s IN X&Y AXIS.

* EIA-364-01A : 2000: ACCELERATION: 490 mm/s² (50G)
* BUMP SEVERITY: 390 mm/s² (40G), 4000± 10 BUMPS
* TESTED WITH LATCHED CONNECTORS

ELECTRICAL:
CURRENT RATING:
EIA-364-70A : 1998: INDIVIDUAL CONTACT IN ISOLATION AT 25°C = 2.8A MAX
EIA-364-70A : 1998: ALL CONTACTS SIMULTANEOUSLY AT 25°C = 2.0A MAX

CONTACT RESISTANCE:
EIA-364-06C : 2006: INITIAL CONTACT RESISTANCE = 20mΩ MAX
EIA-364-06C : 2006: CONTACT RESISTANCE AFTER CONDITIONING = 25mΩ MAX

WORKING VOLTAGE:
EIA-364-20C : 2004: SEA LEVEL (1006mbar) = 450V AC/DC PEAK
EIA-364-20C : 2004: ALTITUDE LEVEL (44mbar) = 250V AC/DC PEAK

VOLTAGE PROOF AT SEA LEVEL (1013mbar) = 600V AC/DC PEAK

INSULATION RESISTANCE:
EIA-364-21C : 2000: INSULATION RESISTANCE (INITIAL) = 10 GΩ MIN AT 500V DC
EIA-364-21C : 2000: INSULATION RESISTANCE (AFTER CONDITIONING = >1 GΩ MIN AT 500V DC

FOR FULL COMPONENT SPECIFICATION SEE C125XX (LATEST ISSUE).

gecko

PATENT PENDING - UK 1205109.0

SF	21.11.13	12281
NAME	DATE	C/NOTE
APPROVED:	S.FLOWER	
CHECKED:	S.BENNETT	
DRAWN:	S.FLOWER	

HARWIN

www.harwin.com
technical@harwin.com

TOLERANCES
X. = ±1mm
X.X = ±0.25mm
X.XX = ±0.10mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

MATERIAL: SEE ABOVE

FINISH: SEE ABOVE

TITLE: G125 SERIES COMPONENT SPECIFICATION

DRAWING NUMBER: G125-SERIES CONNECTORS

SHT 4 OF 4