HIF7 1.27 mm (.050") MINIATURE CONNECTORS

Scope

The HIF7 is a newly developed connector, featuring low insertion force and a 1.27 mm pitch PCB pattern to meet the

ever increasing market needs.



Features

- 1. The connector has a "D" shaped mating section, which is ideal to prevent incorrect insertion.
- 2. The HIF7 has Low Insertion Force (LIF) due to Hirose's unique flexible spring contact design.
- Long effective mating length ensures stability and sufficient contact wipe.
- 4. Versions with PCB lock tabs are also available.
- 5. The availability of many variations ensures you that you can have exactly what you need.

Application

Peripherals, office automation equipment. Mass memory storage devices, etc.

Material and Finish

Electrical Performance

ltem	Material	Finish	ltem	Specification
Insulator	PBT resin	Black	Current Rating	0.5A
Receptacle contact	Phosphor bronze	Selective gold plating	Voltage Rating	125VAC
Header contact	Brass	Selective gold plating	Insulation resistance	1,000MΩ or more @250VDC
		· · · · · · · · · · · · · · · · · · ·	Withstanding voltage	300VAC
			Contact resistance	40mΩ or less at DC100mA

Ordering Information



Receptacle Right Angle Type



Receptacle Straight Type



HRS No.	Part No.	No. of Pin	A	В	C C	
670-0101-8	HIF7-40DA-1.27DSA	40	00.45	00.00		00.4
670-0151-6	HIF7-40DA-1.27DSAL	40 36.45 33		33.02	24.13	29.1
670-0102-0	HIF7-50DA-1.27DSA	50	F0 40.0		00.40	35.45
670-0152-9	HIF7-50DA-1.27DSAL	50 42.8 3		39.37	30.48	
670-0103-3	HIF7-60DA-1.27DSA		40.45	45 70		
670-0153-1	HIF7-60DA-1.27DSAL	60 49.15		45.72	36.83	41.8
670-0108-7	HIF7-68DA-1.27DSA		54.00	50.0		
670-0158-5	HIF7-68DA-1.27DSAL	68 54.23		50.8	41.91	46.88
670-0104-6	HIF7-80DA-1.27DSA		04.05	50.40	10 50	
670-0154-4	HIF7-80DA-1.27DSAL	80 61.85		58.42	58.42 49.53	54.5
670-0105-9	HIF7-100DA-1.27DSA	100 74.55		71.12 62.23		
670-0155-7	HIF7-100DA-1.27DSAL				62.23	67.2
670-0106-1	HIF7-120DA-1.27DSA	100	120 87.25			-
670-0156-5	HIF7-120DA-1.27DSAL	120			74.93	79.9

Header Right Angle Type



The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.



68

80

100

120

54.23

61.85

74.55

87.25

49.53

57.15

69.85

82.55

41.91

49.53

62.23

74.93

47.04

54.66

67.36

80.06

670-0308-6

670-0358-4

670-0304-5

670-0354-3

670-0305-8

670-0355-6

670-0306-0

670-0356-9

HIF7-60PA-1.27DSA

HIF7-68PA-1.27DSAL

HIF7-80PA-1.27DSA

HIF7-80PA-1.27DSAL

HIF7-100PA-1.27DSA

HIF7-100PA-1.27DSAL

HIF7-120PA-1.27DSA

HIF7-120PA-1.27DSAL

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HIF7 Series SMT 1.27mm (0.050) CENTER LINE LIF CONNECTOR

INTRODUCTION

HRS

The HIF7 series is a high density, low insertion force, multiposition connector designed to meet the needs of the continued miniaturization in the electronic industry. We offer this series in 40, 50, 80 and 100 positions. The vertical mount plug and receptacle SMT series is intermatable with our vertical and right angle standard thru hole series.



FEATURES

- 1. "D" shape design insures proper alignment during mating.
- L.I.F. (Low Insertion Force) is accomplished using HIROSE's uniquely designed spring structure incorporated in our "ribbon" contact.
- 3. To help insure better performance our contact has a

larger mating area and increased wiping action for a more reliable interconnect system.

- 4. Molded guide pins assist in assuring proper contact alignment on the PCB.
- 5. Chamfered entry is used to align connectors during mating.

APPLICATION

For various equipment of Computer peripherals or OA devices.

MATERIAL

ltem	Specification
Insulator	PPS resin (UL94V-O)
Receptacle contact	Phosphor Bronze, selective Gold plating
Header contact	Brass, selective Gold plating

ELECTRICAL

ltem	Specification	
Currecnt rating	0.5A	
Voltage rating	125VAC	
Insulation resistance	More than 1,000 mega-ohms min. at 250VDC	
Contact resistance	Less than 40 mm-ohms at 0.1A DC	
Withstanding voltage	300VAC	

TEMPERATURE RATING

245 to 260 degrees centigrade for more than 10 seconds. Rated for V.P.S., I.R., and Heat-blow soldering.

ORDERING FORMAT



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HEADER - STRAIGHT TYPE



RECEPTABLE - STRAIGHT TYPE



RECEPTACLE - CLIP-IN TO PCB TYPE



HIF7C Series Completely Prevents Solder and Flux Wicking (Patent Pending)

Introduction

The HIF7C series connectors that completely prevent Solder and Flux wicking have been added to the reputable connectors HIF7 series for PCB-TO-PCB connection. 40, 50, 60, 68, 80, 100 and 120 positions are available.



Features

- 1. Unique manufacturing methods completely prevent Solder and Flux wicking.
- 2. Compatible with both the washing and non-washing processes for substrates.
- 3. All connectors are polarized to prevent mis-insertion.
- 4. L.I.F. (Low Insertion Force) is accomplished using HIROSE's uniquely designed spring structure incorporated in our "ribbon" contact.
- 5. Long effective mating length ensures highly stable.
- 6. The availability of many variations ensures you that you can have exactly what you need.

Application

For various equipment of Computer peripherals, OA devices or FA devices.

Material and Finish

PBT resin

Brass

Phosphor Bronze

ltem

Insulator Receptacle

Contact Header Contact

d Finisł	n	Electrical	Performance
			·····
Material	Finish	ltem	5

Black

Selective Gold plating

Selective Gold plating

Item	Specification
Current rating	0.5A
Voltage rating	125VAC
Insulation resistance	More than 1,000 mega-ohms min. at 250VDC
Contact resistance	Less than 40 mm-ohms at 0.1A DC
Withstanding voltage	300VAC

Ordering Format



Receptacle Straight Type



Header Straight Type



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APPLICATION CHART



1. Connector selection

on the solder process

a) HIF 7C-**PA-1.27DSA(L) HIF 7C-**DA-1.27DSA(L)



HIF 7C-**PA-1.27DSA

Although the HIF7C series are connectors that completely prevent Solder and Flux wicking (Patent Pending), please select which of the connectors, No Cleaning Board Type (HIF7C-**) or Cleaning Board Type (HIF7CA-**), depending

HIF 7C-*DA-1.27DSA

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FUNCTION CHART

