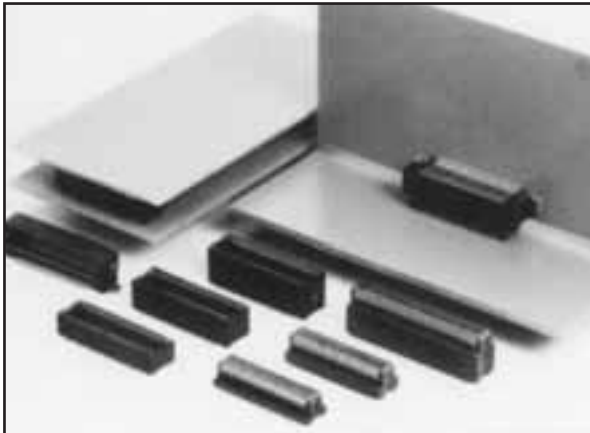


WR SERIES CONNECTORS

0.50mm (.020") Contact Spacing, PCB-to-PCB SMT Connectors



FEATURES

- Ribbon contact design (surface contact)
- Right Angle/Parallel Board-to-Board Connections
- Nine varieties 4 to 9mm (.157 to .354") of parallel board-to-board distance
- Three straight type insulator heights
- Metal hold-downs on both ends of right angle type prevent floating up during automatic mounting
- PCB area beneath insulator may be used for circuit traces
- Available in embossed tape for automatic SMT mounting
- Contact terminal length permits image recognition



The WR Series are SMT-type connectors for PCB-to-PCB applications. These subminiature, low profile connectors keep the required space and height on the PCB to a minimum. High density, ribbon-type contacts are on 0.5mm (.020") centers.

Applications include camcorders, notebook PCs, cellular telephones and other electronic equipment requiring high density packaging.

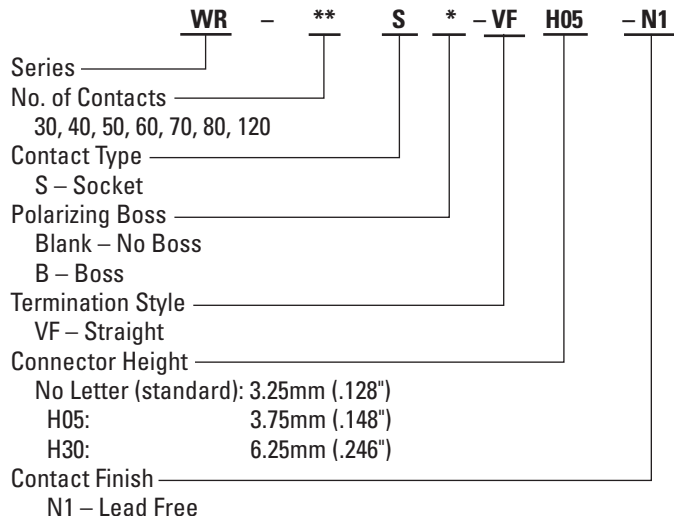
GENERAL SPECIFICATIONS

Number of Contacts	Straight: 20, 22, 28, 30, 40, 50, 60, 70, 80, 100, 120, 160 Right Angle: 20, 30, 40, 50, 60, 70, 80, 120
Contact Spacing	0.50mm (.020")
Current Rating	0.3 Amp per contact
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	50 milliohms max. (Vertical: 70 milliohms max.)
Operating Temperature	-40°C to +85°C

MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator	Socket side: Glass-filled LCP (UL94V-0, Black) Pin side: Glass-filled PPS (UL94V-0, Black)
Contact	Copper Alloy Connecting area: Gold Plating 0.1μm (.000004") min. over Nickel Terminal area: Tin Plating over Nickel or Gold flashover Nickel
Hold-down	Copper Alloy/Tin Plating

ORDERING INFORMATION

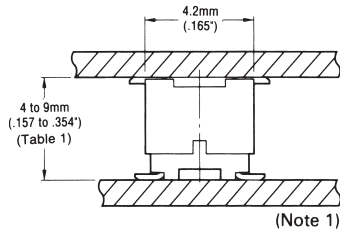


Dimensions in mm (inches).

WR SERIES CONNECTORS

0.50mm (.020") Contact Spacing, PCB-to-PCB SMT Connectors

Connector Profile (Ref.)



PIN SIDE
Straight • Standard Type
WR-**-P-VF-N1

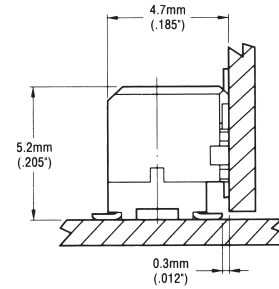
Straight • 50 Type
WR-**-P-VF50-N1

Straight • 60 Type
WR-**-P-VF60-N1

SOCKET SIDE
Straight • Standard Type
WR-**-S-VF-N1

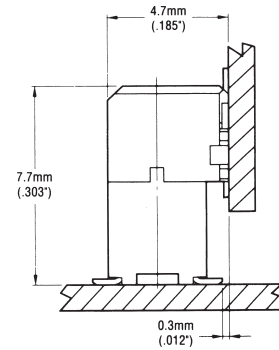
Straight • H05 Type
WR-**-S-VFH05-N1

Straight • H30 Type
WR-**-S-VFH30-N1



PIN SIDE
Right Angle Type
WR-**-P-HF-HD-A1E

SOCKET SIDE
Straight • H05 Type
WR-**-S-VFH05-N1



PIN SIDE
Right Angle Type
WR-**-P-HF-HD-A1E

SOCKET SIDE
Straight • H30 Type
WR-**-S-VFH30-N1

Note 1: 3 connector heights are available for straight type.
Parallel board-to-board distance can be selected in a range from 4mm (.157") to 9mm (.354") [9 kinds].

Table 1

		SOCKET SIDE			
		Connector type	Standard type	H05 type	H30 type
PIN SIDE	Standard type	4.0mm (.157")	4.5mm (.177")	7.0mm (.276")	
	50 type	5.0mm (.197")	5.5mm (.217")	8.0mm (.315")	
	60 type	6.0mm (.236")	6.5mm (.256")	9.0mm (.354")	