

(4.00 mm) .1575"

IP5, IP5-RA SERIES

50Ω HIGH ISOLATION RF PLUGS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/IP5

Shell Material:

Copper Alloy
Insulator Material:
 Black LCP

Contact Material:

Copper Alloy
Dielectric Material:
 Black LCP

Plating:

Au or Sn over

50μ" (1.27 μm) Ni

Current Rating (Vertical):

Signals: 2.36 A per pin
 (2 adjacent pins powered)
 Grounds: 4.4 A per pin
 (2 adjacent pins powered)

Operating Temp Range:

-55°C to +125°C

Insulation Resistance:

IP5 = >35,000 MΩ

IP5-RA = 25,000 MΩ

Contact Resistance:

IP5 = Center: <34 mΩ

IP5 = Outer: <7 mΩ

IP5-RA = Center: 20 mΩ

IP5-RA = Outer: 5 mΩ

Dielectric Withstanding Voltage:

IP5 = 600 VAC

IP5-RA = 190 VAC

Working Voltage:

IP5 = 200 VAC

IP5-RA = 190 VAC

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

RECOGNITIONS

For complete scope of recognitions see

www.samtec.com/quality



ALSO AVAILABLE (MOQ Required)

- Other stack heights
 - Other PCB thicknesses
- Contact Samtec.

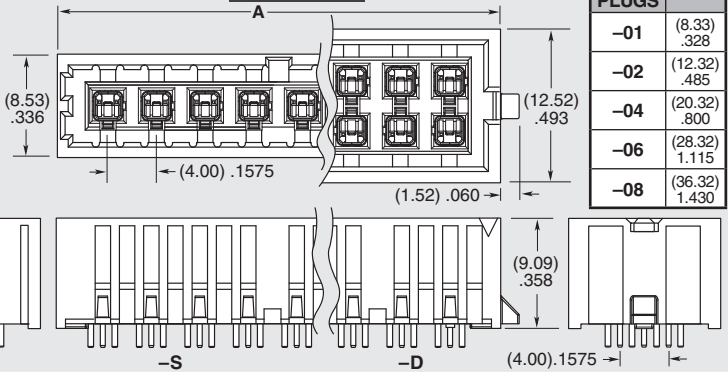
OTHER SOLUTIONS

- 75Ω Board-to-Board system (see IJ7 & IP7 Series)

IP5	PLUGS PER ROW	05.0	PLATING	ROW OPTION	TAIL	OPTION	TR
Mates with: IJ5, IJ5C		-01, -02, -04, -06, -08	-L = 10μ" (0.25 μm) Gold on contact area, Matte Tin on tail	-S = Single Row -D = Double Row (Not available with -01)	-1 = (1.60 mm) .062" board thickness	-L = Cable Latch (Single Row only)	-TR = Tape & Reel

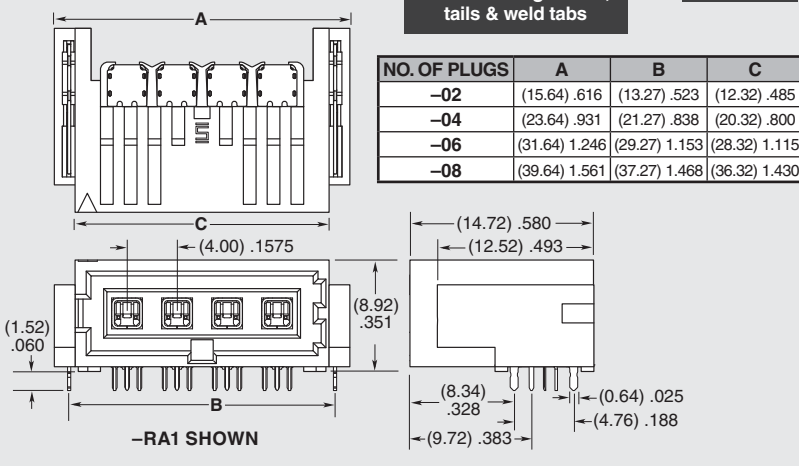
IP5/IJ5 10 mm Stack Height	Frequency
Insertion Loss = 3 dB	10.5 GHz / 21.0 Gbps
Return Loss = 15 dB	5.5 GHz / 11.0 Gbps
VSWR = 1.4	5.4 GHz / 10.8 Gbps
Isolation = 60 dB	8.8 GHz / 17.6 Gbps
Isolation = 70 dB	7.6 GHz / 15.2 Gbps
Isolation = 80 dB	1.3 GHz / 2.6 Gbps

Complete test data available at www.samtec.com/IP5 or contact sig@samtec.com



NO. OF PLUGS	A
-01	(8.33) .328
-02	(12.32) .485
-04	(20.32) .800
-06	(28.32) 1.115
-08	(36.32) 1.430

IP5	PLUGS PER ROW	01	PLATING	S	TAIL OPTION	OPTION	TR
Mates with: IJ5, IJ5C		-02, -04, -06, -08	-L = 10μ" (0.25 μm) Gold on contact area, Matte Tin on grounds, tails & weld tabs	-RA1 = (1.60 mm) .062" board thickness	(Leave blank for no Cable Latch)	-L = Cable Latch	-TR = Tape & Reel



APPLICATION

