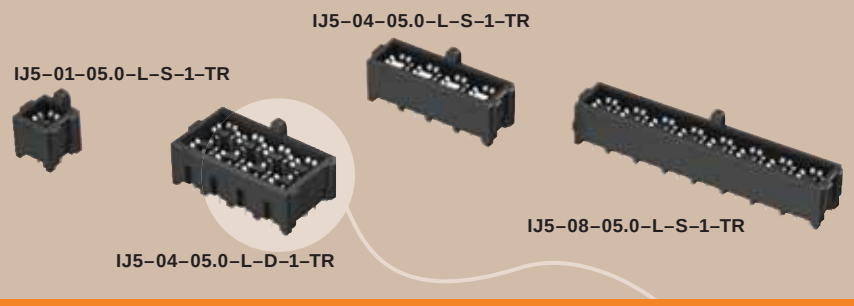
samtec

ISI RATE® Isolated Edge Rate Contact

(4,00 mm) .1575"

IJ5 SERIES



50Ω HIGH ISOLATION RF JACKS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?IJ5

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:
-40°C to +90°C
Insulation Resistance:
>35,000 MΩ
Contact Resistance:
Center: <34 mΩ
Outer: <7 mΩ
Dielectric Withstanding Voltage:
600 VAC
Working Voltage:
200 VAC
RoHS Compliant: Yes

Processing:

Lead-Free Solderable:
Yes

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- Other stack heights
- Other PCB thicknesses

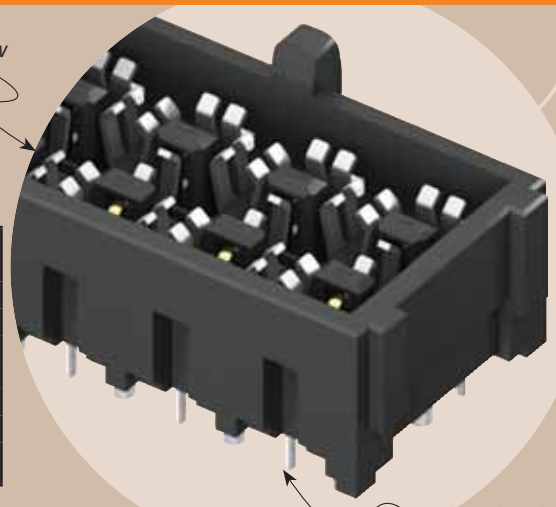
Contact Samtec.

OTHER SOLUTIONS

- 75Ω Board-to-Board system (see IJ7 & IP7 Series)
- Cable assembly (see IJ5C Series)

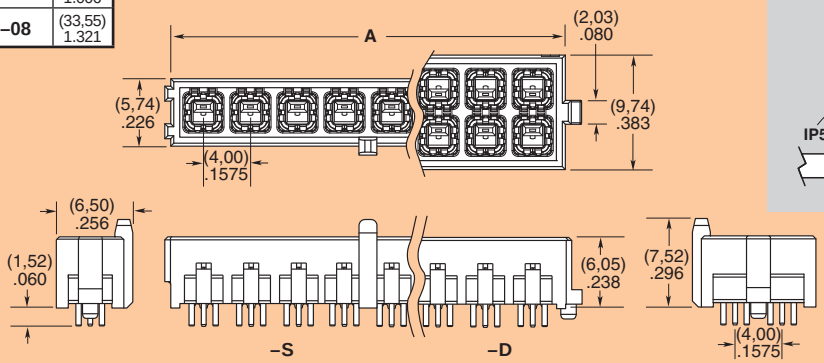
Mates with:
IP5

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?IJ5 or contact sig@samtec.com	

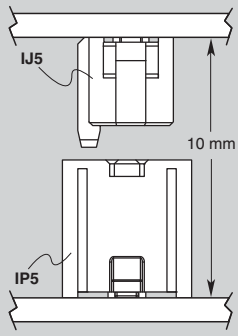


IJ5	–	JACKS PER ROW	–	05.0	–	PLATING	–	ROW OPTION	–	TAIL	–	TR
		–01, –02, –04, –06, –08				–L = 10µ" (0,25 µm) Gold on contact area, Matte Tin on tail		–S = Single Row –D = Double Row (Not available with –01)		–1 = (1,60 mm) .062" board thickness		–TR = Tape & Reel

NO. OF JACKS	A
–01	(5,55) .219
–02	(9,55) .376
–04	(17,55) .691
–06	(25,55) 1.006
–08	(33,55) 1.321



APPLICATION



Due to technical progress, all designs, specifications and components are subject to change without notice.

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