

IP5-04-05.0-L-S-1-TR

IP5-08-05.0-L-S-1-TR

(4.00 mm) .1575"

IP5, IP5-RA SERIES

50 Ω 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

50 μ" (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

Dielectric Withstanding Voltage:

IP5 = 600 VAC

IP5-RA = 190 VAC

Working Voltage:

IP5 = 200 VAC

IP5-RA = 190 VAC

RoHS Compliant:

Yes

IP5

PLUGS
PER ROW

05.0

PLATING

ROW
OPTION

TAIL

OPTION

TR

Mates with:
IJ5, IJ5C
**-01,
-02, -04,
-06, -08**
-L
 = 10 μ" (0.25 μm)
 Gold on contact area,
 Matte Tin on tail

-S
 = Single Row
-D
 = Double Row
 (Not available
 with -01)

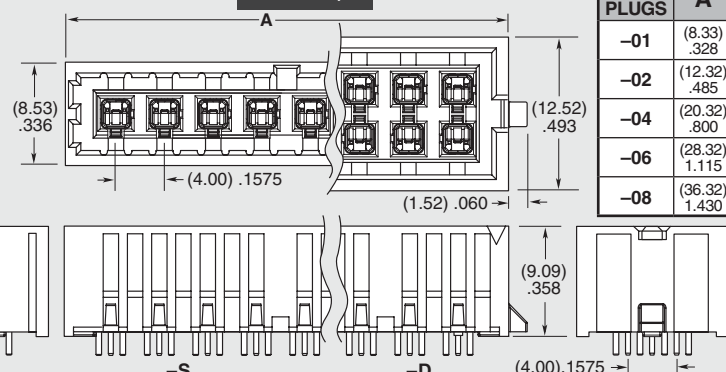
-1
 = (1.60 mm)
 .062" board
 thickness

-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
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

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.

IP5

PLUGS
PER ROW

01

PLATING

S

TAIL
OPTION

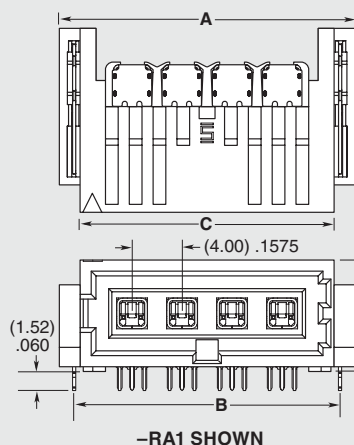
OPTION

TR

Mates with:
IJ5, IJ5C
**-02, -04,
-06, -08**
-L
 = 10 μ" (0.25 μm)
 Gold on contact area,
 Matte Tin on grounds,
 tails & weld tabs

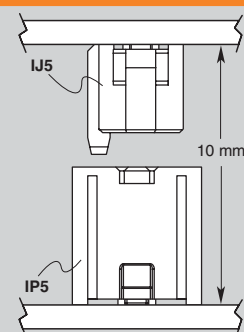
-RA1
 = (1.60 mm)
 .062" board
 thickness

 (Leave blank
 for no Cable
 Latch)
-L
 = Cable Latch

-TR
 = Tape
 & Reel


NO. OF PLUGS	A	B	C
-02	(15.64) .616	(13.27) .523	(12.32) .485
-04	(23.64) .931	(21.27) .838	(20.32) .800
-06	(31.64) 1.246	(29.27) 1.153	(28.32) 1.115
-08	(39.64) 1.561	(37.27) 1.468	(36.32) 1.430

APPLICATION



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

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.