

IPS Series Three Way Thick Film Resistive Power Splitter

The IMS 9.5dB 50Ω power splitters are a simple, low-profile, space saving alternative to softboard solutions. They are ideal for nearly any application under 7GHz. Circuit construction is microstrip on alumina and the device is fully symmetric.

Please contact factory for other power ratios.

IPS2480-X

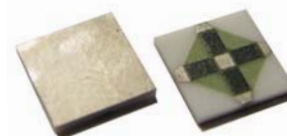
Configuration: Microstrip
 Terminal Material: Gold
 Attachment: Gold wire bondable
 Size: 0.240"L x 0.240"W x 0.035"H Max¹

IPS2481-X

Configuration: Microstrip
 Terminal Material: Platinum Silver
 Attachment: Solder or Epoxy
 Size: 0.240"L x 0.240"W x 0.035"H Max¹

IPS2521-X

Configuration: SMT
 Terminal Material: Platinum Silver
 Attachment: Solder or Epoxy
 Size: 0.270"L x 0.270"W x 0.035"H Max¹



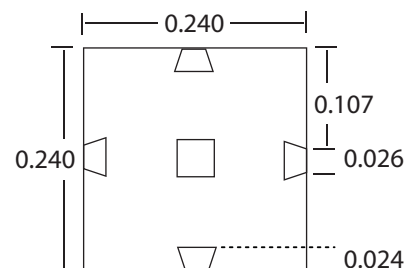
Microstrip Version



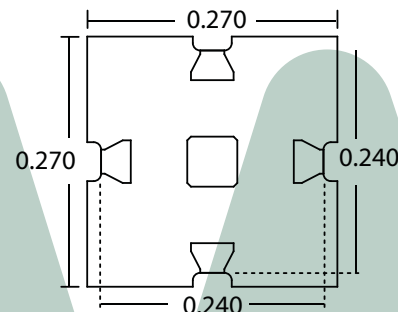
SMT Version

Dimensions (inches)

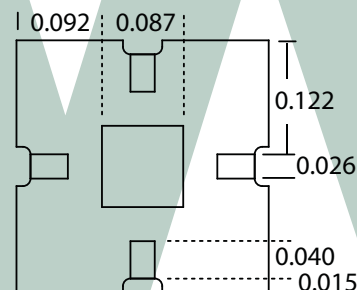
IPS2480 and IPS2481 TOP



IPS2521 TOP



IPS2521 BACK



IPS Series 3-Way Specifications

Power Split (by design): 9.5dB Each Output
 Amplitude Balance (by design): ±0.7dB
 Operating Frequency²: DC to 7GHz
 Rated Power³: 3W
 Nominal VSWR: 1.3:1 Max
 Impedance: 50Ω or 75Ω
 DC Standard Tolerance: 5%
 Architecture: Thick Film on 96% Alumina

Ordering Information

IPS2480-C (Sample P/N)
 IPSXXXX-X
 Part # (See Above) — -C= 50Ω Impedance
 — -D= 75Ω Impedance

- Contact factory for detailed dimensional information
- Proper implementation of RF design principles are required to assure optimal performance.
- Baseplate temperature 100°C or less

9.5dB
Each Output

3W
Rated Power

0.7dB
Amplitude Balance

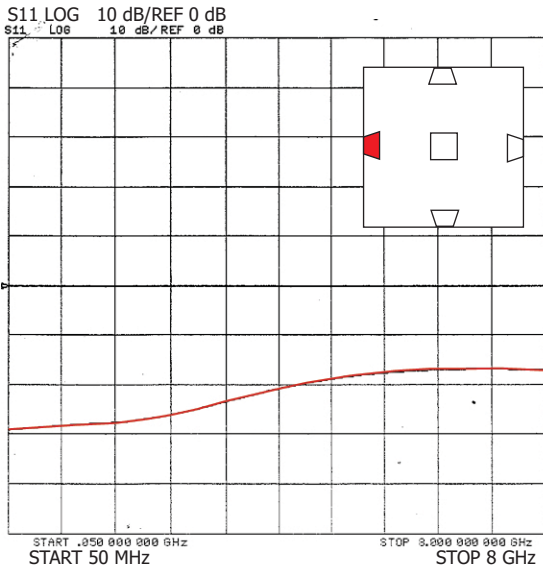
ims International Manufacturing Services, Inc.

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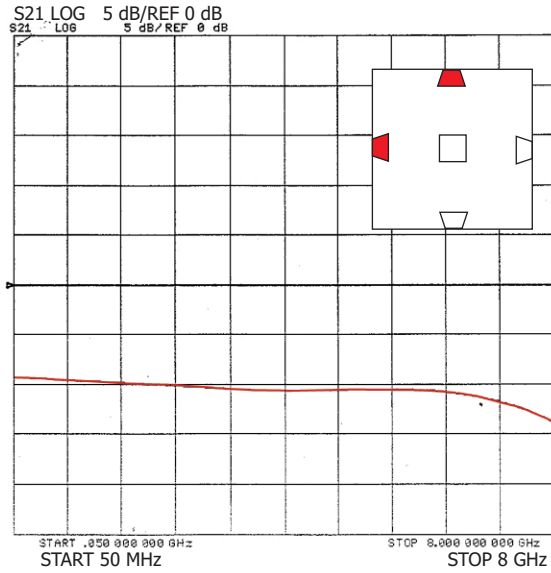
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Ver 2 10/2009 Specifications Subject to Change Without Notice

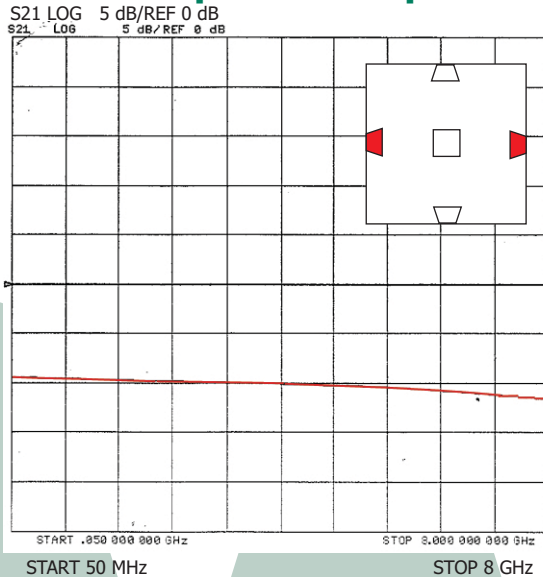
Return Loss



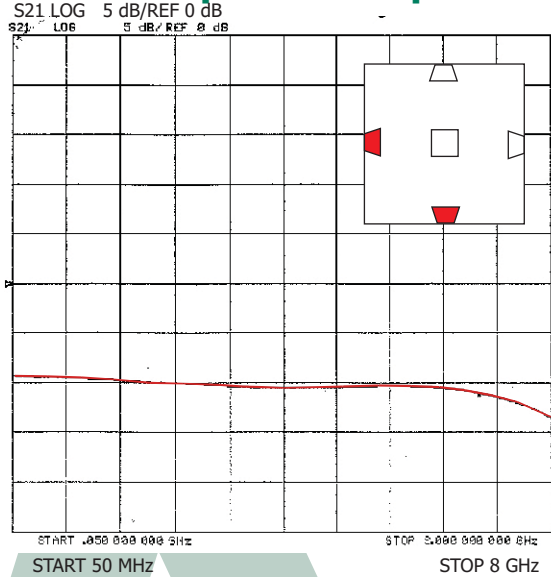
Port 1 Amplitude Response



Port 2 Amplitude Response



Port 3 Amplitude Response



The curves above illustrates the frequency response of the IPS2481 splitter. The unit was tested in a matched continuous 50 ohm alumina fixture which incorporated microstrip to coax transitions.



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