

IPS Series Three Way

ims

9.5dB Thick Film Resistive Power Splitter

The IPS 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.

IPS2480-X

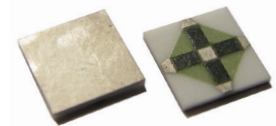
Configuration: Microstrip
Terminal Material: Gold
Attachment: Gold wire bondable
Size: 0.240"L x 0.240"W x 0.035"H Max¹

IPS2481-X

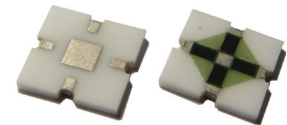
Configuration: Microstrip
Terminal Material: Platinum Silver
Attachment: Solder or Epoxy
Size: 0.24"L x 0.240"W x 0.035"H Max¹

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



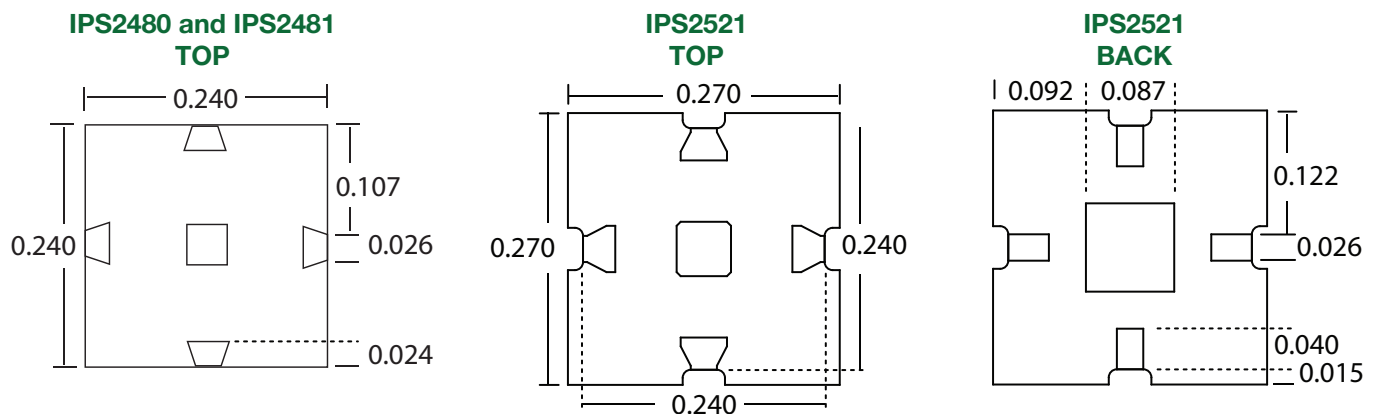
Microstrip Version



SMT Version

Thick Film

Dimensions



Item	Specification
Power Split (by design):	9.5dB each output
Attenuation Balance (by design):	±0.7dB
Operating Frequency ² :	DC to 7GHz
Rated Power ³ :	3W
Nominal VSWR:	1.3:1 Max
Impedance:	50Ω or 75Ω
DC Standard Tolerance:	5%
Architecture:	Thick Film on 96% Alumina

Ordering Information	
IPS2480-CU (Sample P/N)	
IPSXXXX - CU	
Part #	C= 50Ω Impedance D= 75Ω Impedance

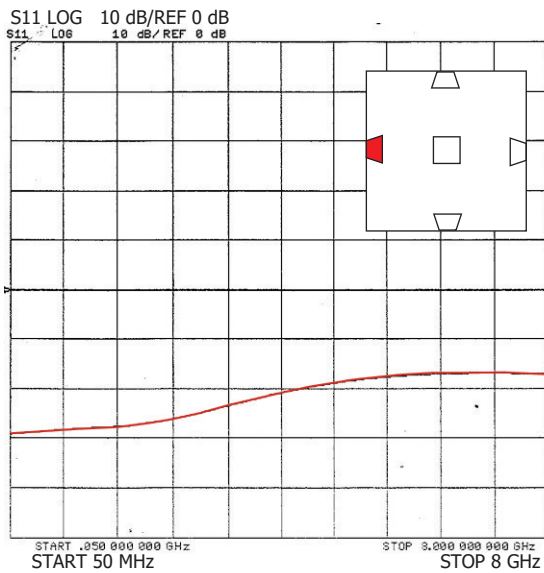
1. Contact factory for detailed dimensional information
2. Proper implementation of RF design principles are required to assure optimal performance.
3. Baseplate temperature 100°C or less

International Manufacturing Services, Inc.

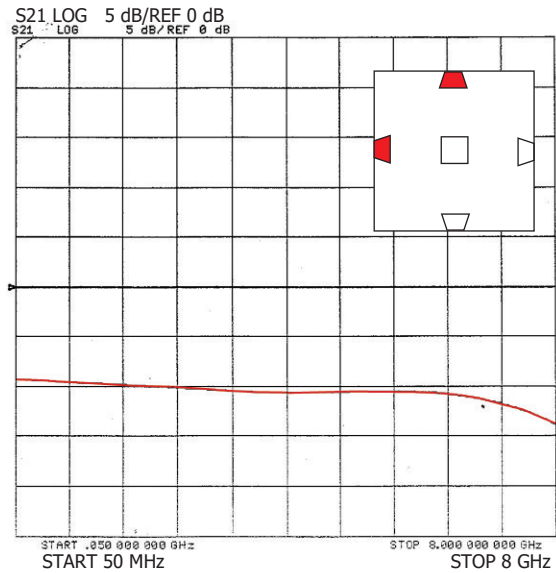
50 Schoolhouse Ln., Portsmouth RI 02871 USA

Tel (401) 683-9700 • Fax (401) 683-5571 • e-mail: ims@ims-resistors.com • www.ims-resistors.com

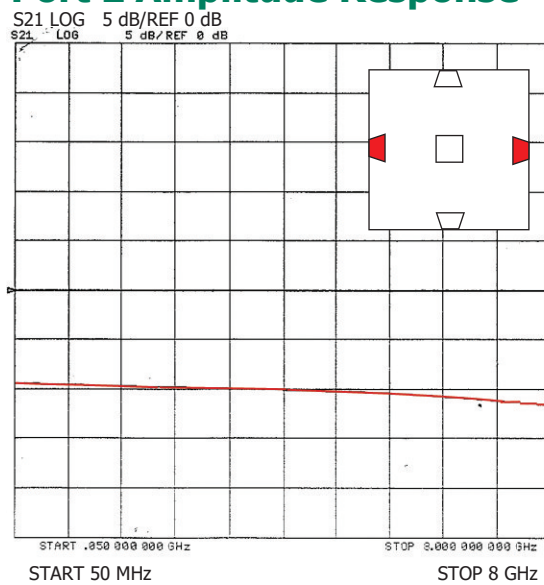
Return Loss



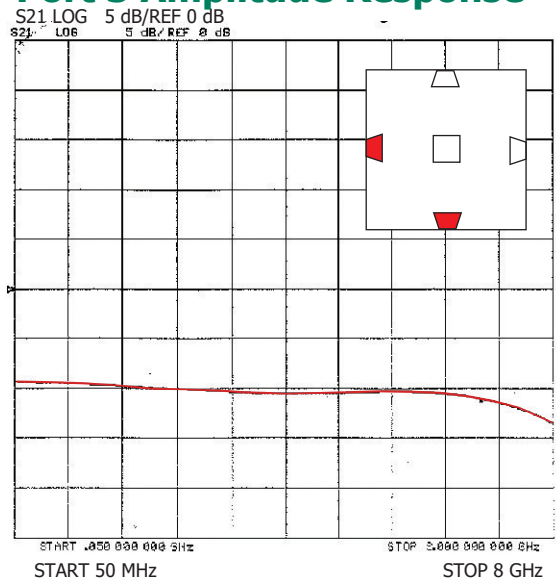
Port 1 Amplitude Response



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.