

GENERAL AND ELECTRICAL REQUIREMENTS

Parameter	Specification	Notes
Center Frequency	1000 MHz	Fo
Bandwidth	460 MHz	Minimum
Average Insertion Loss	1.0 dB Maximum	Over full temperature range
Passband Ripple pk-pk	0.5dB max.	770 to 1230 MHz
Passband Ripple pk-pk	0.6dB max.	750 to 1250 MHz
VSWR	1.5:1 dB max.	
Rejection	≥ 1.6 dBc, Fo ± 330 MHz ≥ 32 dBc, DC to 450 MHz ≥ 32 dBc, 1540 MHz to 6250 MHz	
Time Delay @ 800 MHz	2ns max.	Relative to delay at 1GHz
Time Delay @ 1200 MHz	2ns max.	Relative to delay at 1GHz
Z _s /Z _L	50Ω nominal	
Input Power	2 W max.	

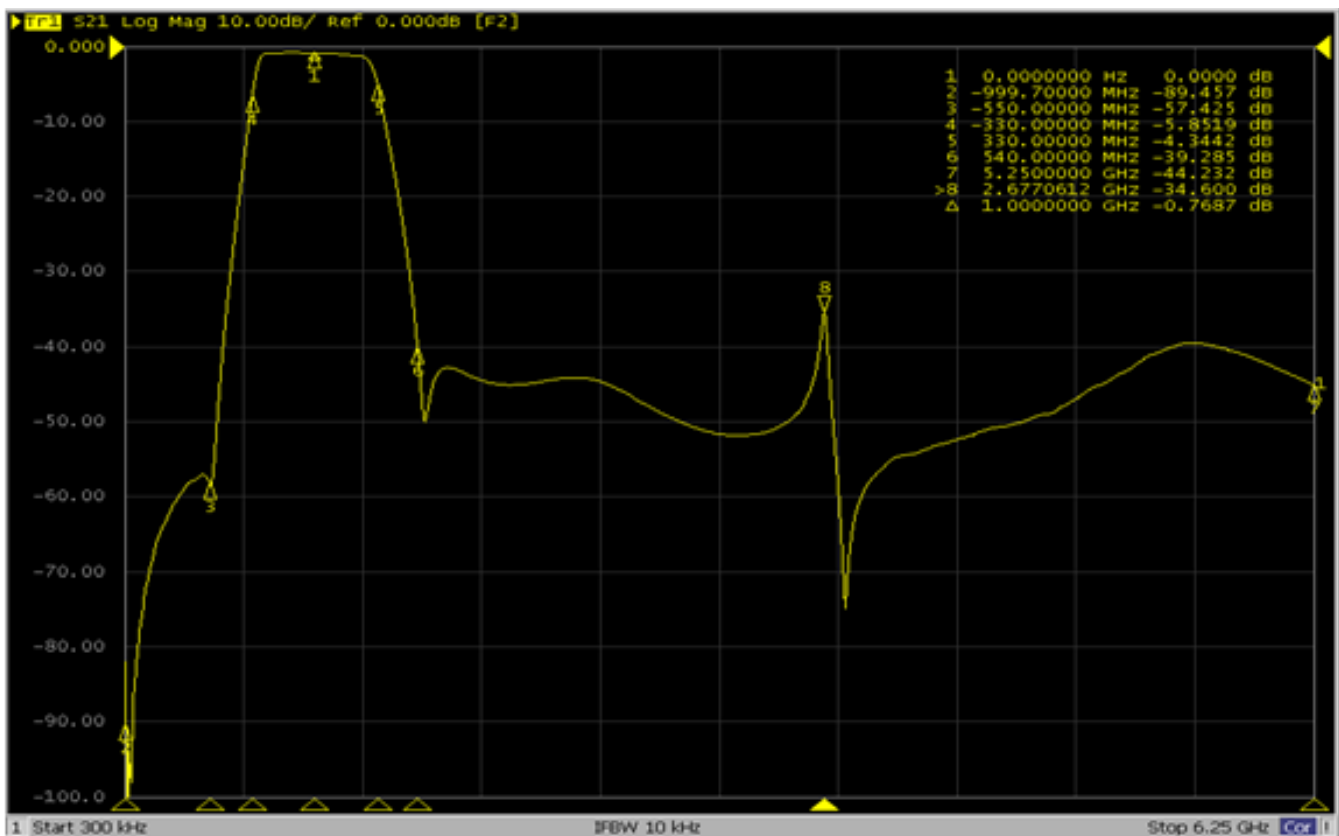
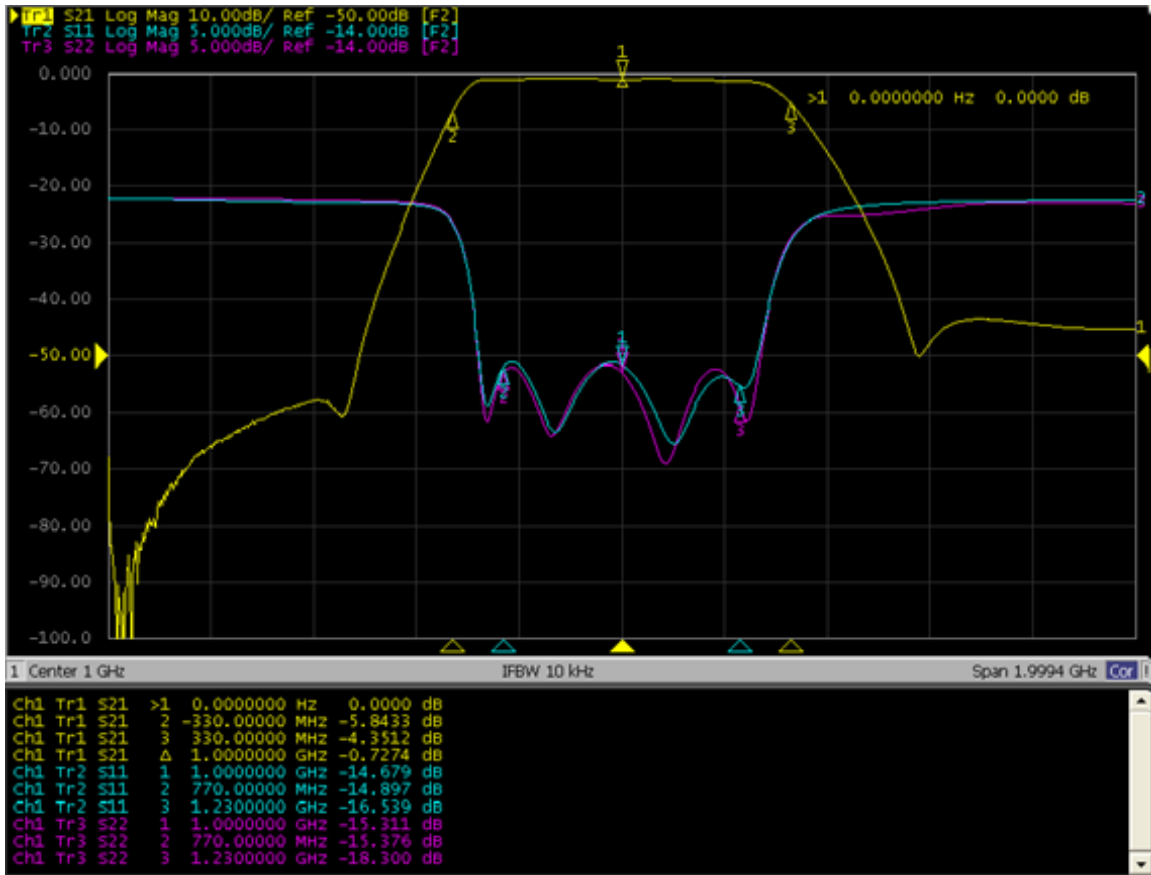
Package

Cover material	0.016+.002" Brass per ASTM B36 Alloy C26000 H02 or equivalent, plated with 0.2 mil copper undercoat and silver plate 0.3mil minimum final coat.	
PCB material	Rogers 4350. Terminations are ENIG per IPC-4552.	

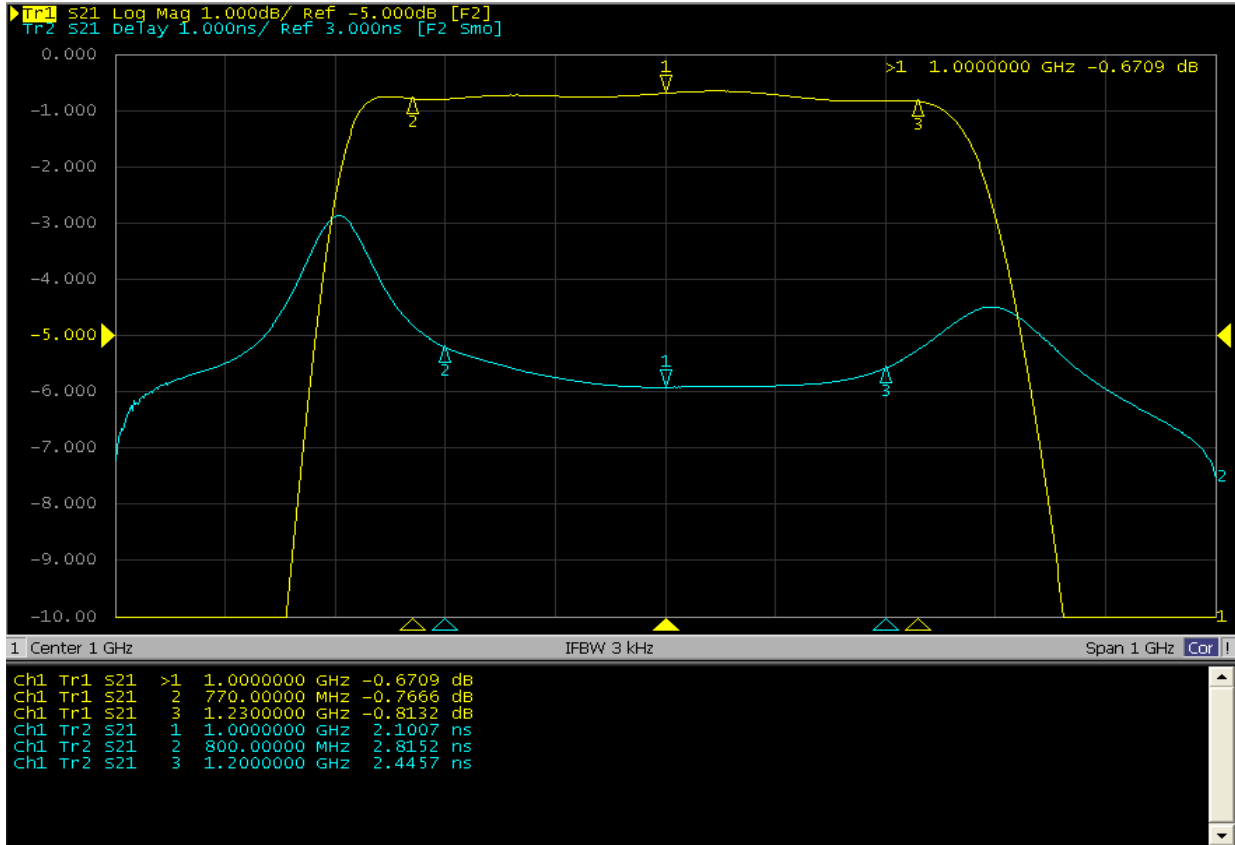
Absolute Maximum Ratings and Conditions

Parameter	Symbol	Min	Typ.	Max	Units	Notes
Operating Temperature	T _A	-40		+100	°C	
Storage Temperature	T _S	-55		+125	°C	
Mechanical Shock	MIL-STD-202, Method 213, Condition C.					
Performance Random Vibration	50 to 1000MHz: 0.35 g ² /Hz, 1000 to 2000Hz: 6dB/Octave roll off. Overall: 23GRMS Min					
Endurance Random Vibration	50 to 1000MHz: 1.10 g ² /Hz, 1000 to 2000Hz: 6dB/Octave roll off. Overall: 40GRMS Min					
Moisture Sensitivity Level (MSL)	Level 1					

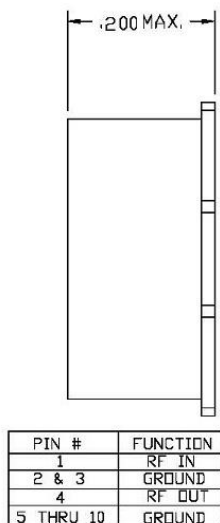
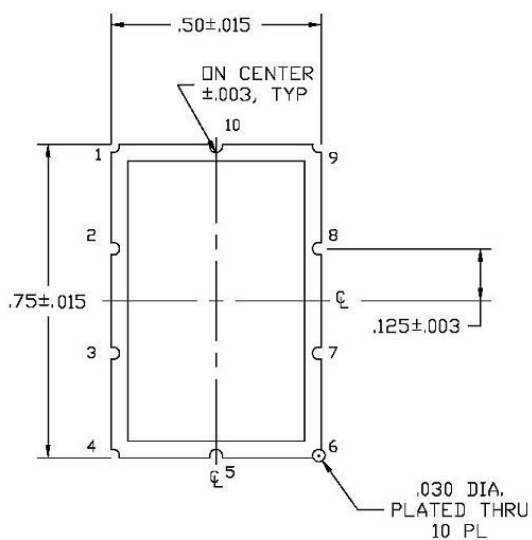
REPRESENTATIVE PLOTS



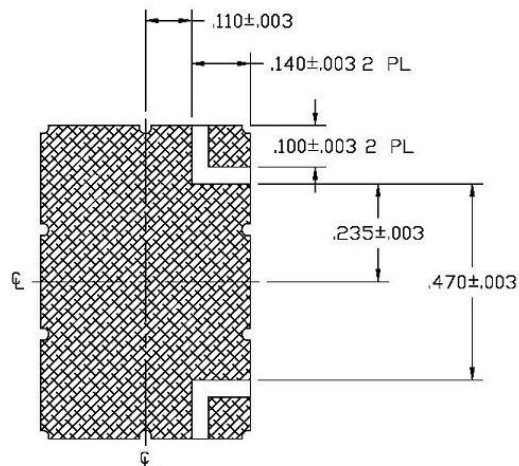
REPRESENTATIVE PLOTS



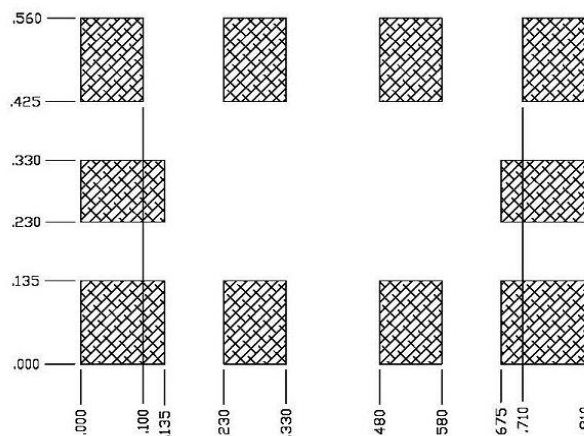
PACKAGE OUTLINE



PIN #	FUNCTION
1	RF IN
2 & 3	GROUND
4	RF OUT
5 THRU 10	GROUND



UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES
 DECIMALS ANGULAR
 .XX ± .01 ±
 .XXX ± .005
 DO NOT SCALE DRAWING



SUGGESTED LAND PATTERN
 TOP SIDE

Data Sheet Revision Table			
Date	Rev	Author	Details of Revision
07-11-18	F	DPD	Input Power changed from 1.5W to 2.0Watts Maximum
06-04-18	E	DPD	Materials, Outline updated and MSL added
05-22-18	D	DPD	Material details added
05-09-18	C	DPD	Outline updated.
05-02-18	B	DPD	Storage temperature and tolerances added.
04-30-18	A	DPD	Original Draft.

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice.
 No liability is assumed as a result of their use or application.