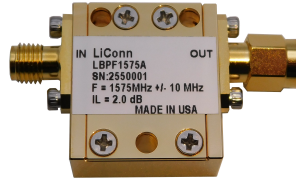


FEATURES:

- GPS L1 of 1575 ± 10 MHz;
- 2.0 dB Insertion Loss;
- 40.0 dB Off Band Rejection;
- 1 W Max CW Input Power;
- 1.5:1 VSWR;
- Meet MIL-STD-202g;
- RoHS Compliant;
- Made in USA.

APPLICATIONS:

- GPS Receiver
- Test Equipment



ORDER INFORMATION:

Model Number	Input	Output
LBPf1575A	Field Replaceable SMA	
	SMA F	SMA M

LBPf1575A, 1575 MHz ±10 MHz GPS L1 Band Pass Filter

ELECTRICAL SPECIFICATIONS @ 21 °C

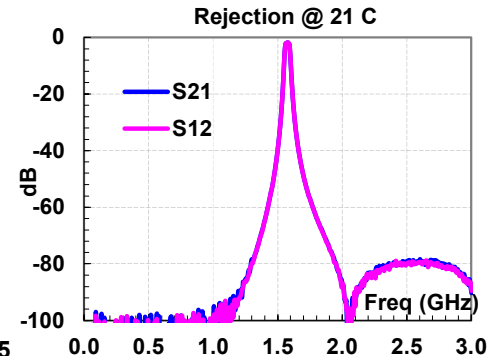
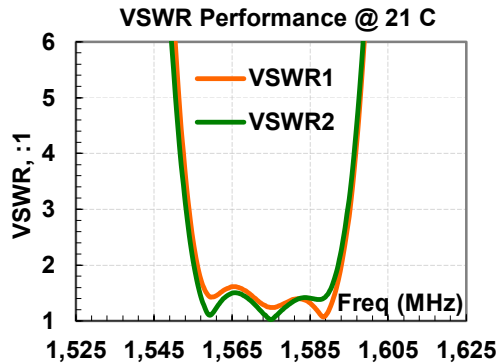
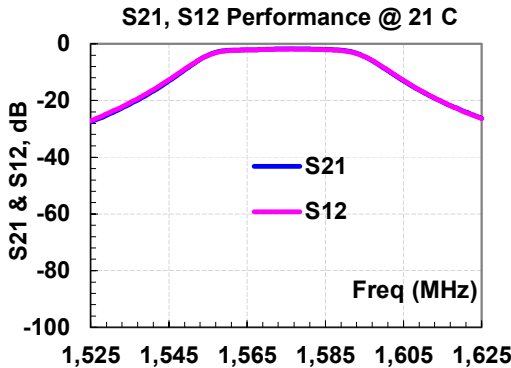
Symbol	Parameters/Conditions	Unit	Min	Typical	Max
IL	Passband Insertion Loss	dB		2.0	2.5
ΔIL	Flatness	dB		±0.5	
SWR _{1,2}	Input & Output VSWR	Ratio		1.5:1	2:1
R _{1,2}	DC - 1465 MHz	dB	30	40	
R _{1,2}	1685 - 2500 MHz	dB	30	40	
P _{MAX}	Maximum CW Power	dBm			30
Z ₀	Impedance	Ω		50	

ABSOLUTE MAXIMUM RATINGS¹

Parameters/Conditions	Unit	Maximum
RF Input Power, CW	W	1
Operating Temperature	°C	-40 ~ +85
Storage Temperature	°C	-55 ~ +125

[1] Operation beyond these limits may cause permanent damage

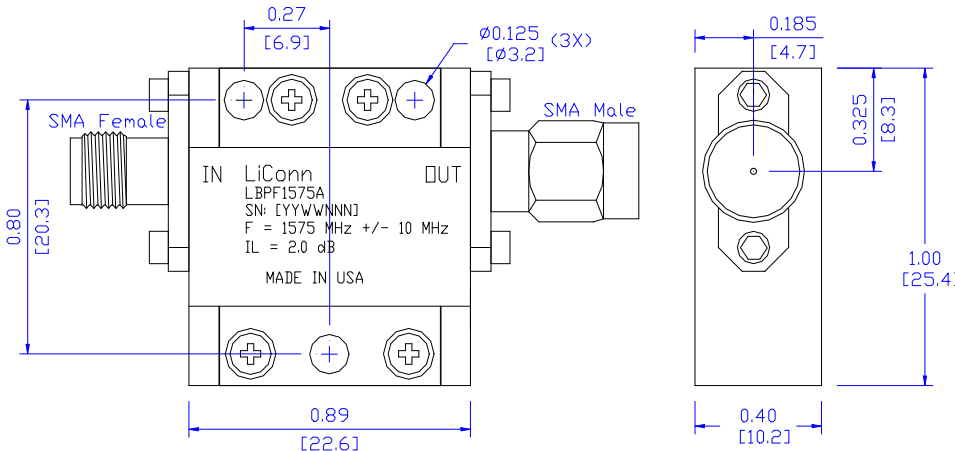
ELECTRICAL PERFORMANCE



FUNCTIONAL BLOCK DIAGRAM



MEC

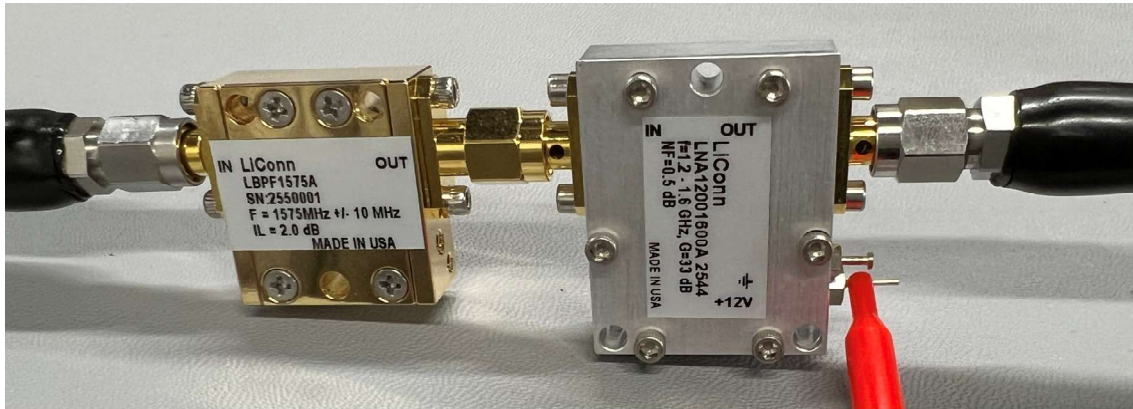


INCH Base Material: Brass
 [mm] Finish: Gold Plating
 Tolerance: X.XX ±0.01"
 X.XXX ±0.005"

LBPF1575A, 1575 MHz ± 10 MHz GPS L1 Band Pass Filter

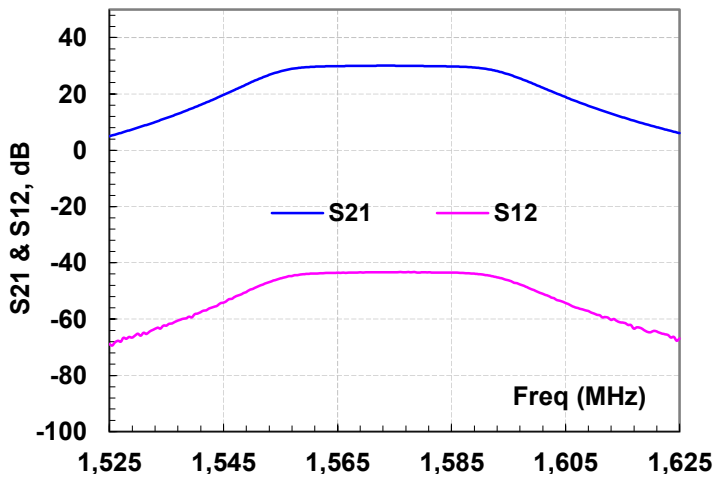
Sample Application: GPS Receiving System

LBPF1575A pairing with 1.2GHz ~ 1.6GHz Low Noise Amplifier: [LNA12001600A](#):

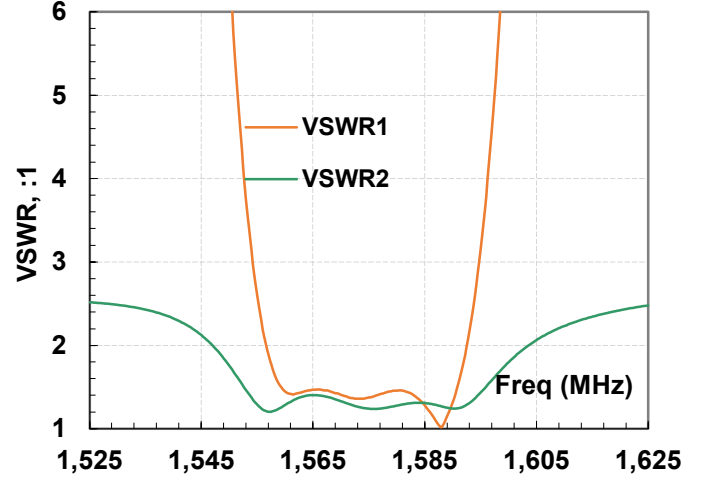


Typical Performance:

S21, S12 Performance @ 21 C



VSWR Performance @ 21 C



Rejection @ 21 C

