

## LEAD-FREE / RoHS-COMPLIANT SURFACE MOUNT BANDPASS FILTER

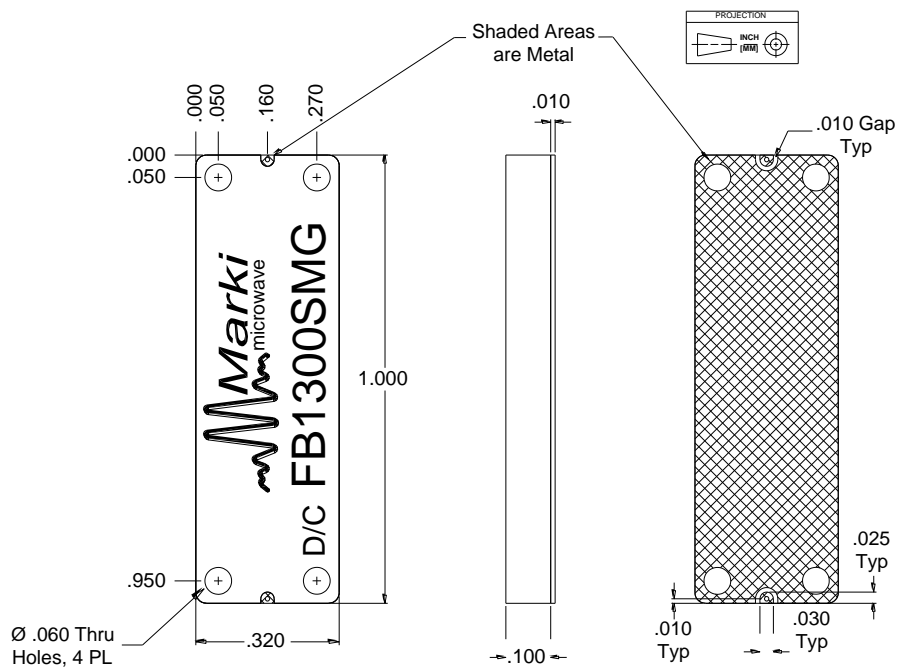
### FB-1300SMG

#### Features

- Chebyshev Response
- Typical 3 dB Bandwidth,  $\pm 7.5\%$
- 50 dB Stop Band Suppression
- 5 Section Filter
- [FB-1300.S2P](#)
- [Reflow Solderable](#)

**Electrical Specifications** – Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

Parameter	Frequency (GHz)	Min	Typ.	Max
Center Frequency, $f_c$	13.0			
Pass Band	12.0-14.0			
Insertion Loss (dB)	13.0		2	3
Return Loss (dB)	12.0-14.0		15	
Stop Band Suppression (dB) , Lower	8.0		50	
	9.2		35	
Stop Band Suppression (dB) , Upper	17.8		50	
	17.0		35	
Impedance ( $\Omega$ )			50	
RF Power (W)				1



Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Rolled Cu Both Sides.  
Gold Flash Finish, 10 u-inches typical, over solderable electroplated nickel, 100-200 u-inches per QQ-N-290A  
See <http://www.markimicrowave.com/menus/appnotes/an-flsm1000-pcb.pdf> for suggested PCB layout.

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## Typical Performance

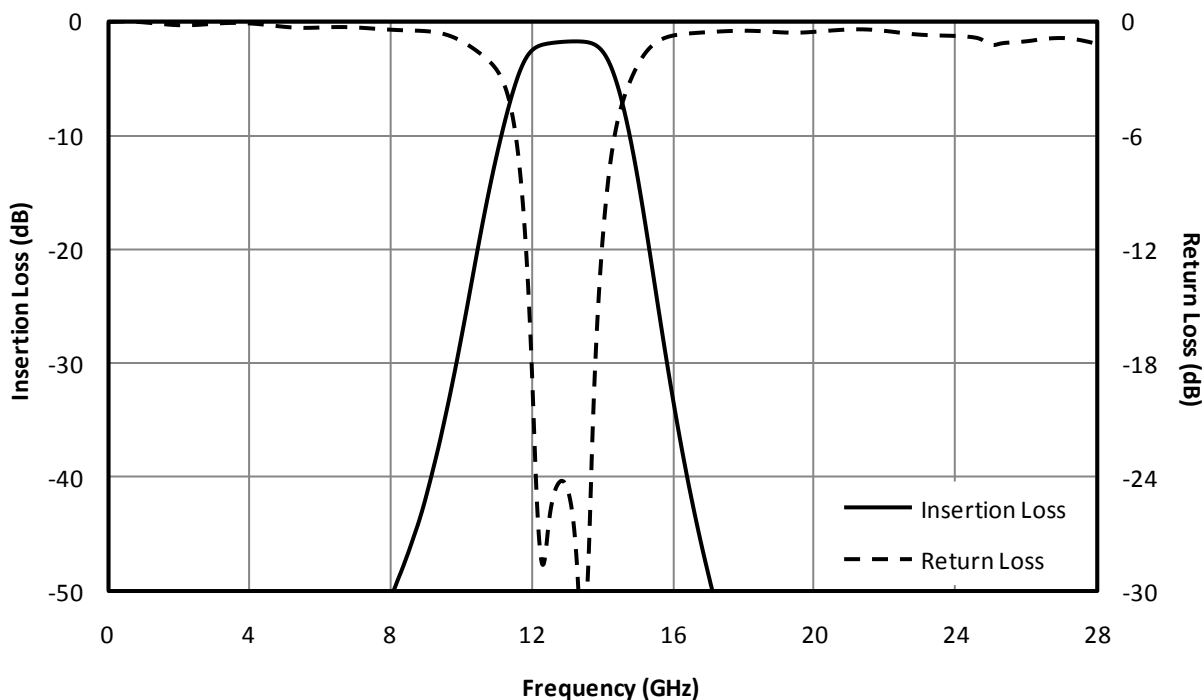


Fig. 1. Magnitude response for a typical FB-1300SM, measured in a connectorized fixture.

Model Number	Description
FB-1300SMG	13.0 GHz Bandpass Filter, Surface Mount, <b>LEAD-FREE/RoHS COMPLIANT</b>

Connectorized test fixtures available. Consult factory.

**NOTE:**

Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets

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### Revision History

Revision code	Revision Date	Comment
-	September 2020	Datasheet initial Release