



## SURFACE MOUNT BANDPASS FILTER

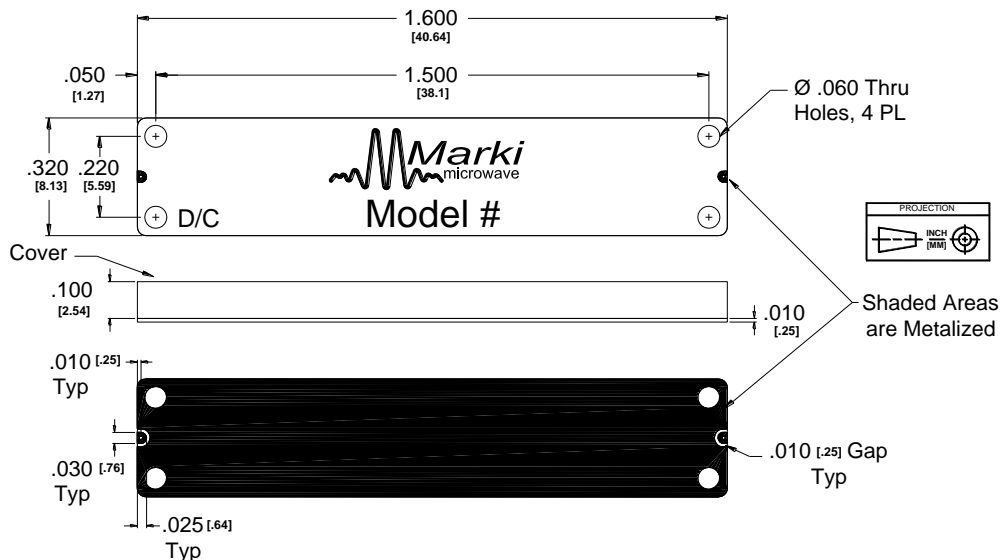
**FB-1140SM**

### Features

- Chebyshev Response
- Typical 3 dB Bandwidth,  $\pm 8.5\%$
- 50 dB Stop Band Suppression
- 5 Section Filter
- [FB-1140.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, $f_c$	11.4			
Pass Band	10.45-12.35			
Insertion Loss (dB)	11.4		2	3
Return Loss (dB)	10.45-12.35		15	
Stop Band Suppression (dB) , Lower	6.9		50	
	8.1		35	
Stop Band Suppression (dB) , Upper	15.5		50	
	14.4		35	
Impedance (Ω)			50	
RF Power (W)				1



Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu.

I/O Pads & Ground Plane Finish is 100-300 μ-inches 60/40 Pb/Sn Solder Plate over Cu.

See <http://www.markimicrowave.com/menus/appnotes/an-flsm1600-pcb.pdf> for suggested PCB layout.

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## Typical Performance

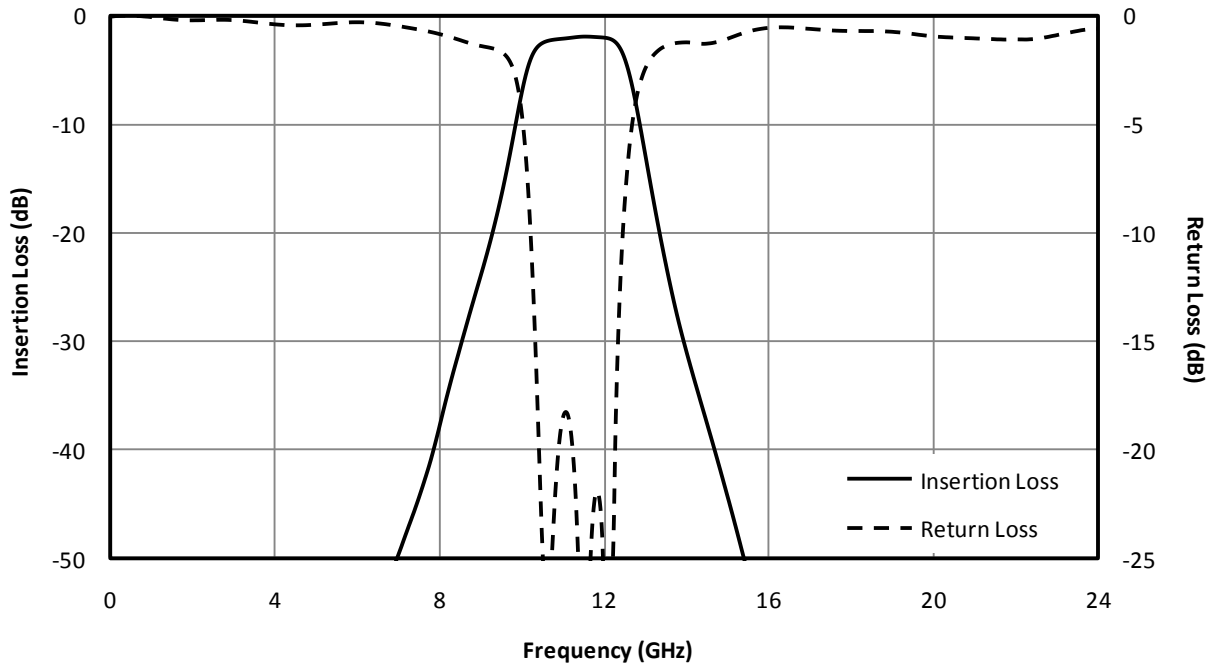


Fig. 1. Magnitude response for a typical FB-1140SM, measured in a connectorized fixture.

Model Number	Description
FB-1140SM	11.4 GHz Bandpass Filter, Surface Mount

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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