

LORCH MICROWAVE S-Band Switch Filter Bank

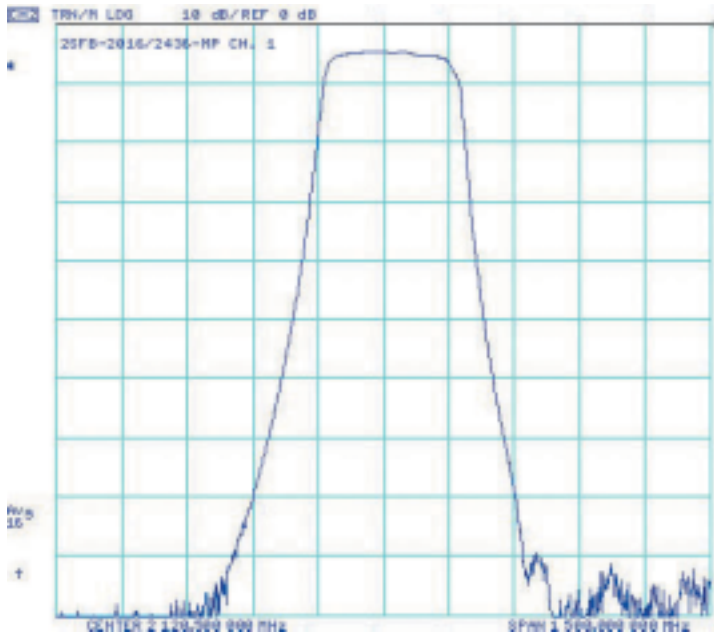
The 2SFB-2016/2436-MP is a two channel high isolation switch filter bank. This unit features 80 dB stop bands on both channels. Insertion loss is specified as 6.5 dB across the pass bands with 2.0:1 as a standard VSWR. This switch filter bank utilizes a +5 V power supply with <50mA current draw. The control and voltage lines contain, control line filters to reduce RF coupling. The switching speed is specified as 100 ns maximum. The mechanical housing includes RF pins for surface mounting and has been designed with a .3 tall maximum height to fit most low profile cards. This assembly has been designed to meet Mil-Std 202 environmental conditions.



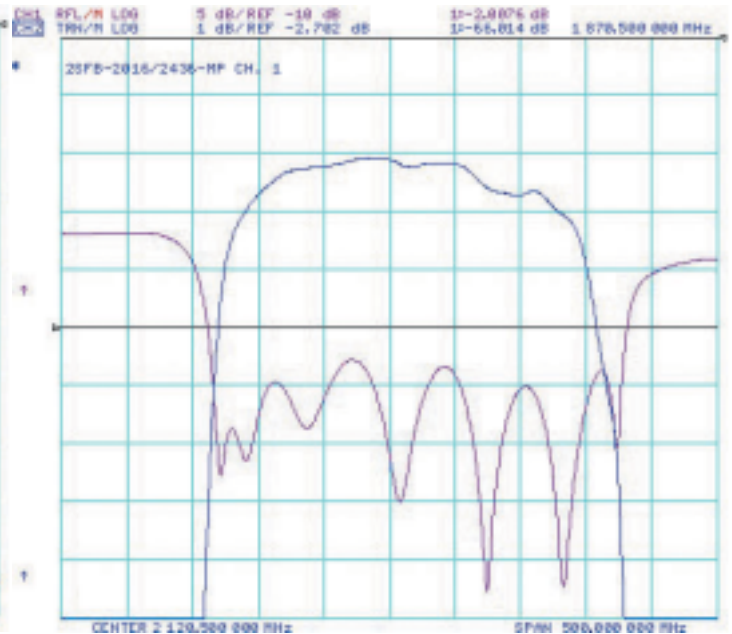
Standard Design Features

	Low Band	High Band
Center Frequency	2120.5 MHz	2330.5 MHz
Bandwidth (1dB)	209 MHz	211 MHz
Insertion Loss	6.5 dB maximum	6.5 dB maximum
Input/Output VSWR	2.0:1	2.0:1
Attenuation	80 dB minimum @ 1 — 1450 MHz	80 dB minimum @ 1 — 1650 MHz
	80 dB minimum @ 2436 — 2900 MHz	80 dB minimum @ 2650 — 2900 MHz
Amplitude Ripple	+/- .5 dB across the 1dB bandwidth	
Switching Speed	100 ns maximum	
Control Logic	TTL Positive True	
Power Requirements	+5 VDC @ 50 mA maximum current	
Operating Temperature	0 to +70 °C	
Humidity	5% to 95% non-condensing	
Mechanical	3.25 L x 1.25 W x .3 H	

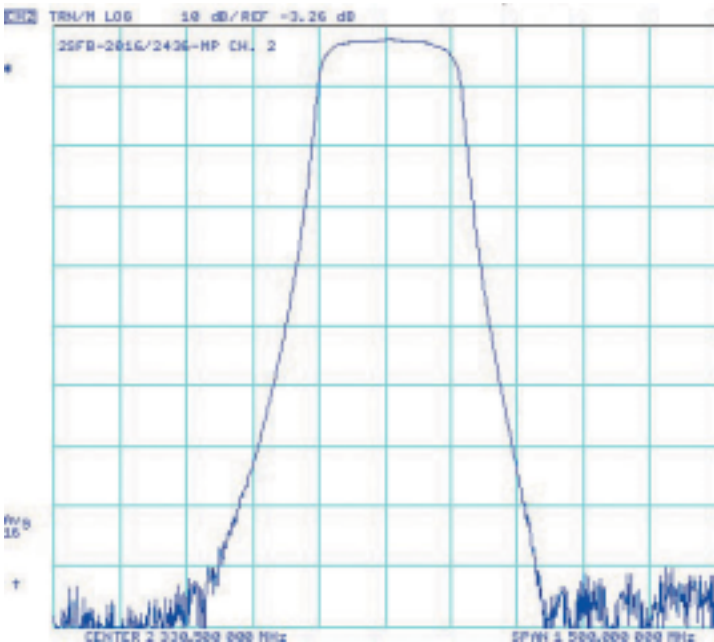
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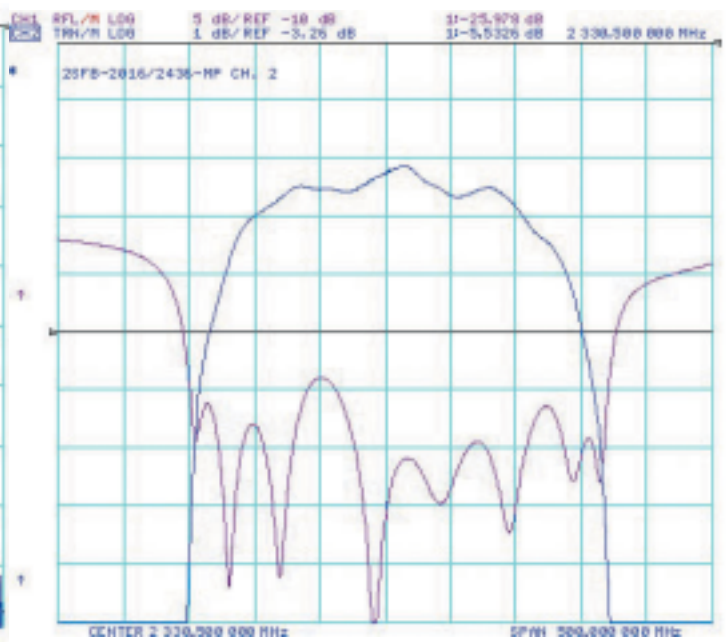
Passband Response



1 dB Bandwidth / VSWR



Passband Response



1 dB Bandwidth / VSWR