

# LORCH MICROWAVE VHF Switch Filter Bank

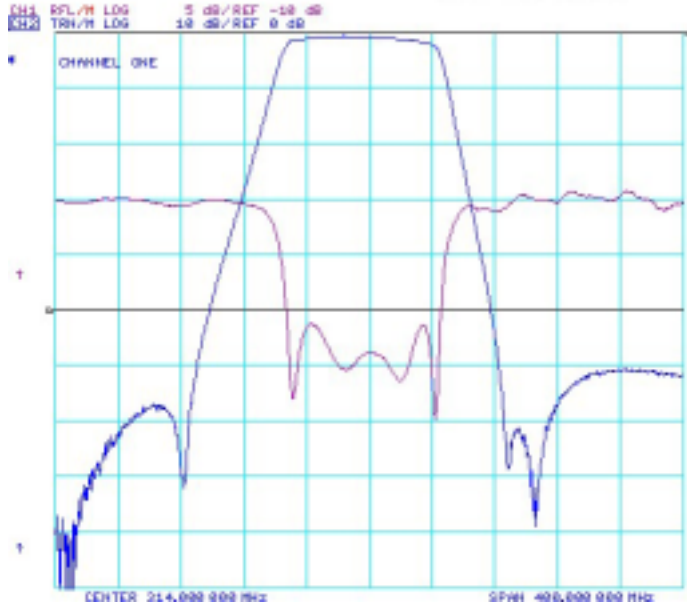
3IFA-280/494-SR is a 3-channel switch filter bank covering the frequency range of 250 to 500 MHz. This unit features a custom package designed to fit a specific mechanical configuration. The bank utilizes a +5V power supply and two TTL control lines for switching. The filter bandwidths are 1.5 dB with stop bands of 45, 50 and 60 dB. This unit has been designed to meet a stringent military environment of -55 to +85 degree operating temperature.



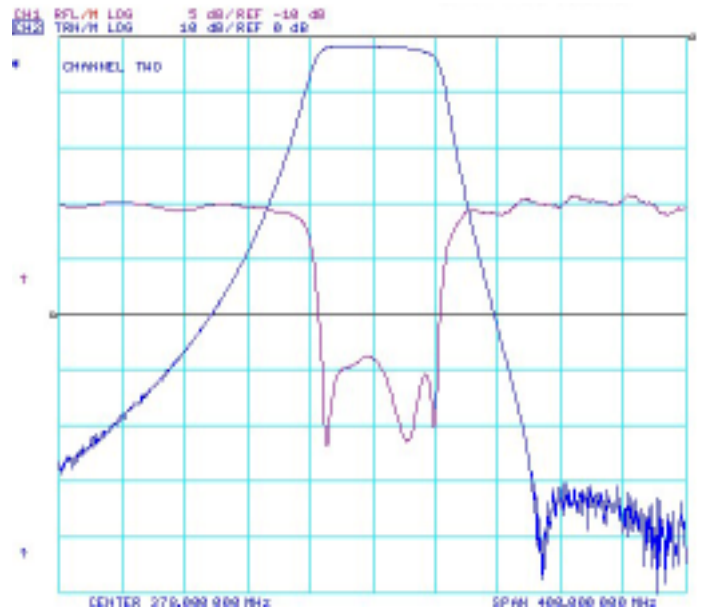
## Standard Design Features

	Channel 1	Channel 2	Channel 3
Center Frequency	314 MHz	378 MHz	451 MHz
Bandwidth (1.5 dB)	68 MHz	58 MHz	86 MHz
Insertion Loss	4.5 dB maximum	4.5 dB maximum	4.5 dB maximum
Input/Output VSWR	2.0:1	2.0:1	2.0:1
Attenuation	186 MHz 50 dB	233 MHz 50 dB	349 MHz 60 dB
	396 MHz 60 dB	465 MHz 45 dB	535 MHz 45 dB
Amplitude Ripple	.5 dB across the 1.5 dB BW		
Switching Speed	500 ns maximum		
Control Logic	TTL Positive True		
Power Requirements	+5 VDC at 50 mA max. current		
Operating Temperature	-55 to +85 °C		
Humidity	5% to 95% non-condensing		
Mechanical	see outline		

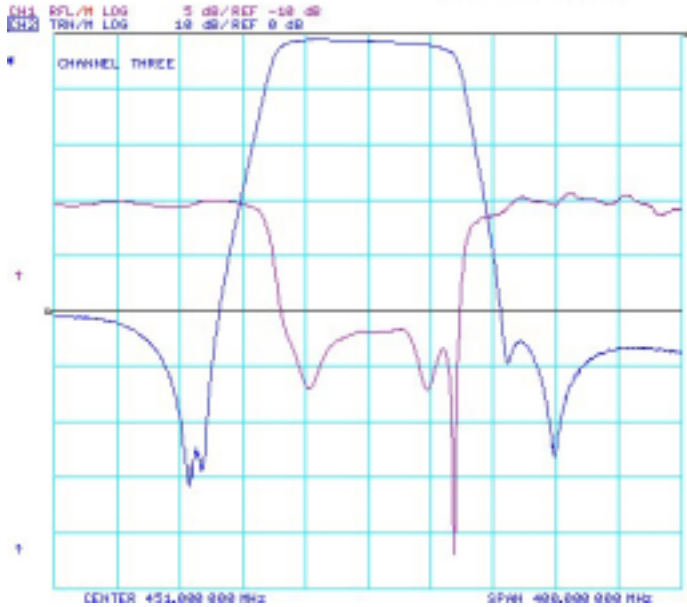
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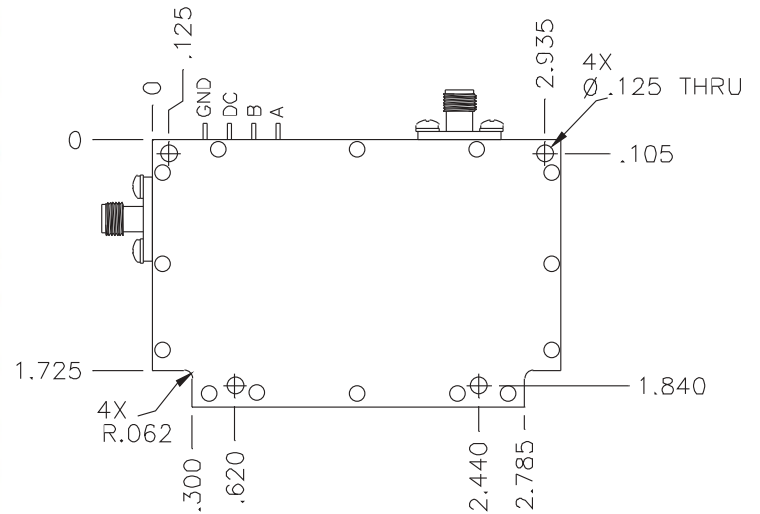
**Passband Response**



**Passband Response**



**Passband Response**



**Outline Drawing**