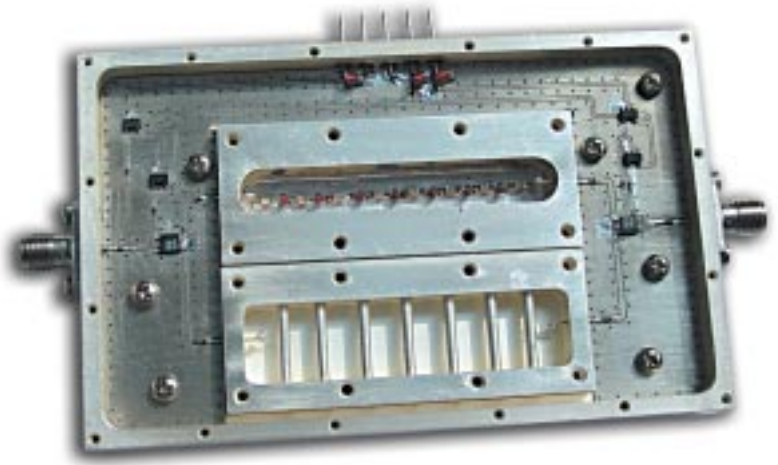


LORCH Two Channel Switch Filter Bank

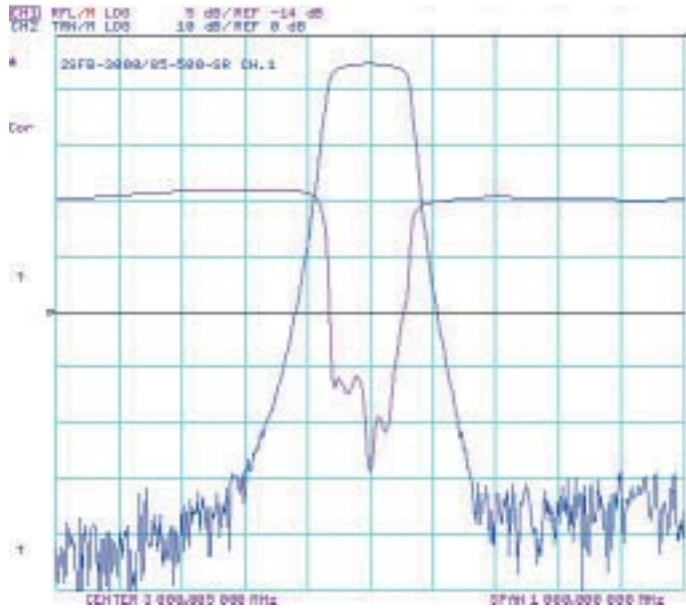
The 2SFB-3000/85-500-SR is a two channel switch filter bank centered at 3 GHz. This unit features a narrowband 85 MHz channel and a broadband 500 MHz channel. The bank provides 5.0 dB maximum insertion loss at F_c and 70 dB stopband attenuation points. The power requirements feature a single +5 V supply with <50 ma. current consumption and two bit control logic. The mechanical housing includes sma-female field replaceable connectors and has been machined out of aluminum to maintain a light weight package. This assembly has been designed to meet stringent environmental conditions typically found in military applications.



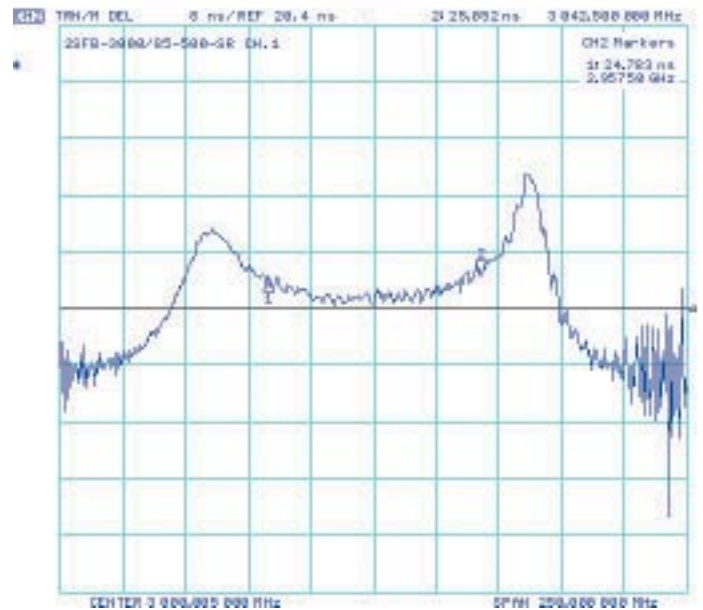
Standard Design Features

Center Frequency	3000 MHz	
Bandwidth (1dB)	85 MHz (Filter Path 1)	500 MHz (Filter Path 2)
Insertion Loss	5.0 dB maximum at F_c	
Shape Factor (6/60)	2.5:1	
Amplitude Ripple	+/- .4 dB across the 1 dB Bandwidth	
Group Delay Flatness	85 MHz +/- 4 ns (Filter Path 1)	500 MHz +/- 1 ns (Filter Path 2)
Switching Speed	400 ns maximum	
Input/Output VSWR	1.5:1	
Control Logic	TTL Positive True	
Power Requirements	+5VDC at 50 mA maximum current	
Operating Temperature	-10 to +65 °C	
Humidity	20% to 95% Non Condensing	
Mechanical	4.0 L x 2.5 W x .75 H (excluding connectors)	

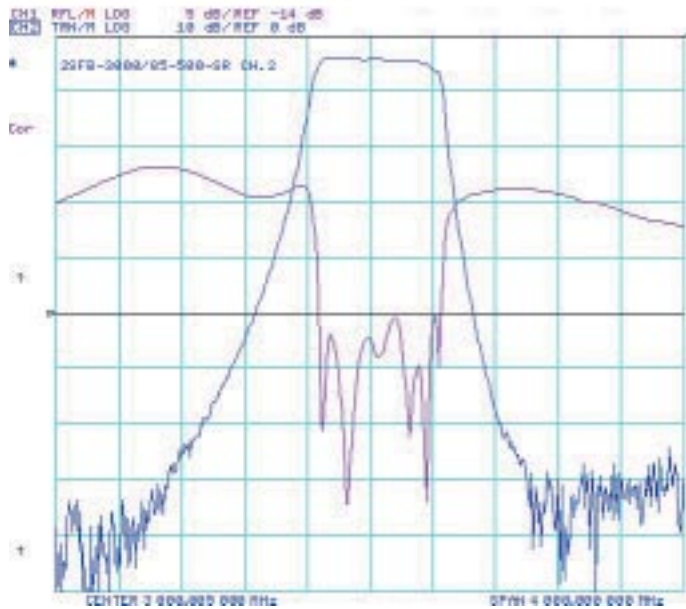
LORCH Two Channel Switch Filter Bank



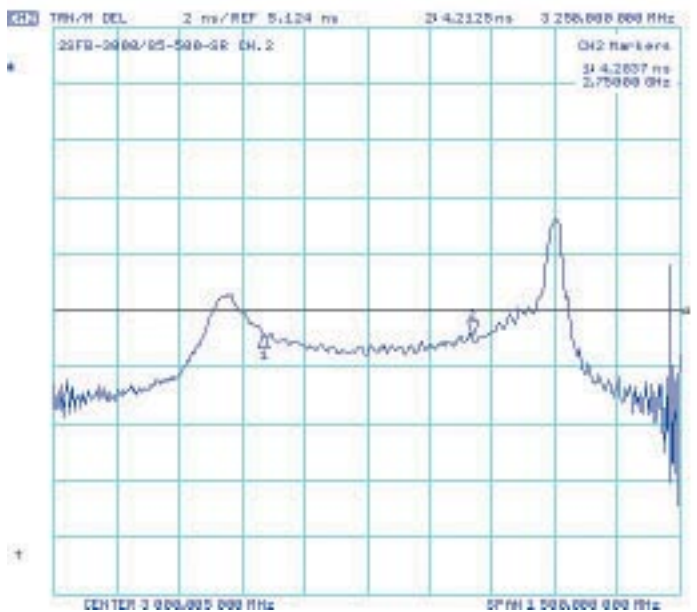
Passband Response



Group Delay Response



Passband Response



Group Delay Response