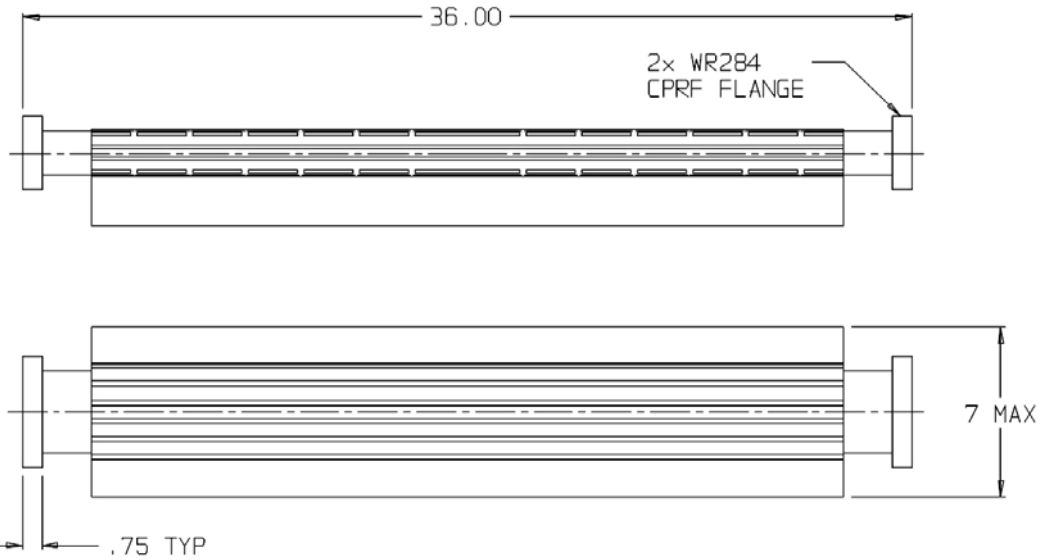




# EXTRA HIGH POWER LOW PASS FILTER (S70L-501)

DATA SHEET  
No. T147

- EXTRA HIGH POWER
- LOW LOSS
- HIGH REJECTION
- COOL OPERATING TEMPERATURE
- HIGH EFFICIENCY FINS
- RUGGED CONSTRUCTION



## DESCRIPTION

MEC's S70L-501 is a WR284 Extra High Power Low Pass Filter. It operates at S-band and handles 3 MW peak, 20 KW average. High conductivity aluminum alloy material is used which helps lower the insertion loss (typically 0.1 dB). The low loss, high precision machining, and high efficiency cooling fins all aid in lowering the operating temperatures. Temperature rise is less than 70 degrees F above ambient at 20 KW average input power. All above factors contribute towards problem free operation at the extremely high power levels.

This filter is machined using a carefully controlled process. Its rugged construction makes it suitable for extreme shipboard environments. This field proven design has been operational for many years, failure free, in numerous installations.

Contact MEC with your specific requirements. Our engineering staff will be glad to discuss your high power filter needs.

## SPECIFICATIONS:

<b>Model Number</b>	<b>S70L-501</b>
<b>Frequency</b>	2.9-3.1 GHz
<b>VSWR</b>	1.2:1 Max
<b>Insertion Loss</b>	0.1 dB Max.
<b>Stop Band Frequency</b>	3.7-4.2 GHz
<b>Rejection</b>	60 dB Min (80 dB Typ.)
<b>Peak Power</b>	3 MW
<b>Average Power</b>	20 KW
<b>Case Temperature</b>	70° Max above ambient @20 KW average power
<b>Pressure</b>	37.5 PSIG Max
<b>Input/Output Ports</b>	WR284

