



**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

## 42.58 MHz LC Band Pass Filter

**Part Number: AE42.58B5469**



### Electrical Specifications

**Center Frequency:** 42.58 MHz  
**0.5dB Bandwidth:** 0.5 MHz  
**Insertion Loss @42.58 MHz:** 8.0dB Max.  
**Return Loss @ 42.58 MHz:** 14.0dB Min.  
**Rejection1:** 35dB Min @ 40.8 MHz  
**Rejection2:** 35dB Min @ 44.77 MHz

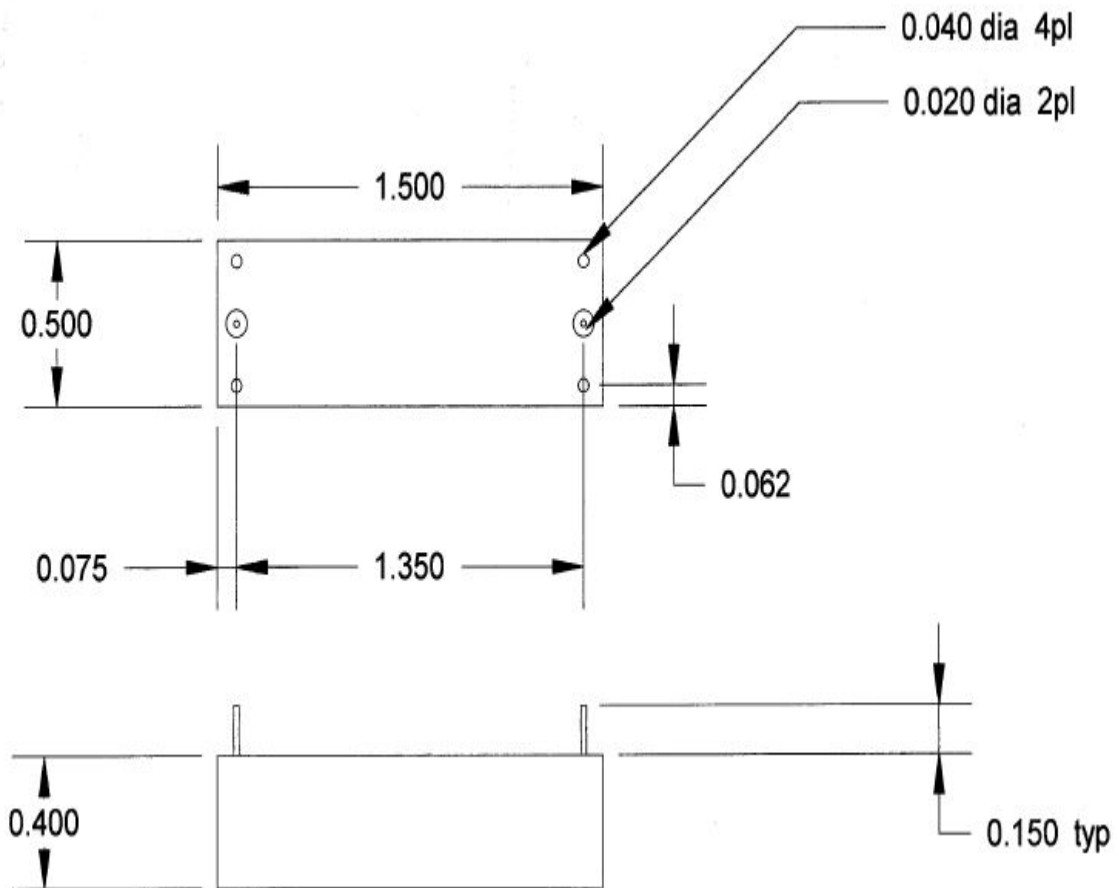
### Mechanical

**Connector Type:** Pc-Mount  
**Dimensions:** 1.5" X 0.5" x 0.4".

### Environmental

**Operating Temperature:** -25°C to +70°C  
**Storage Temperature:** -40°C to +90°C  
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

### Outline Drawing:



Tolerance: +/-0.01 inches [+/-0.3mm] Angles: +/-1 Deg.

\*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

\*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.



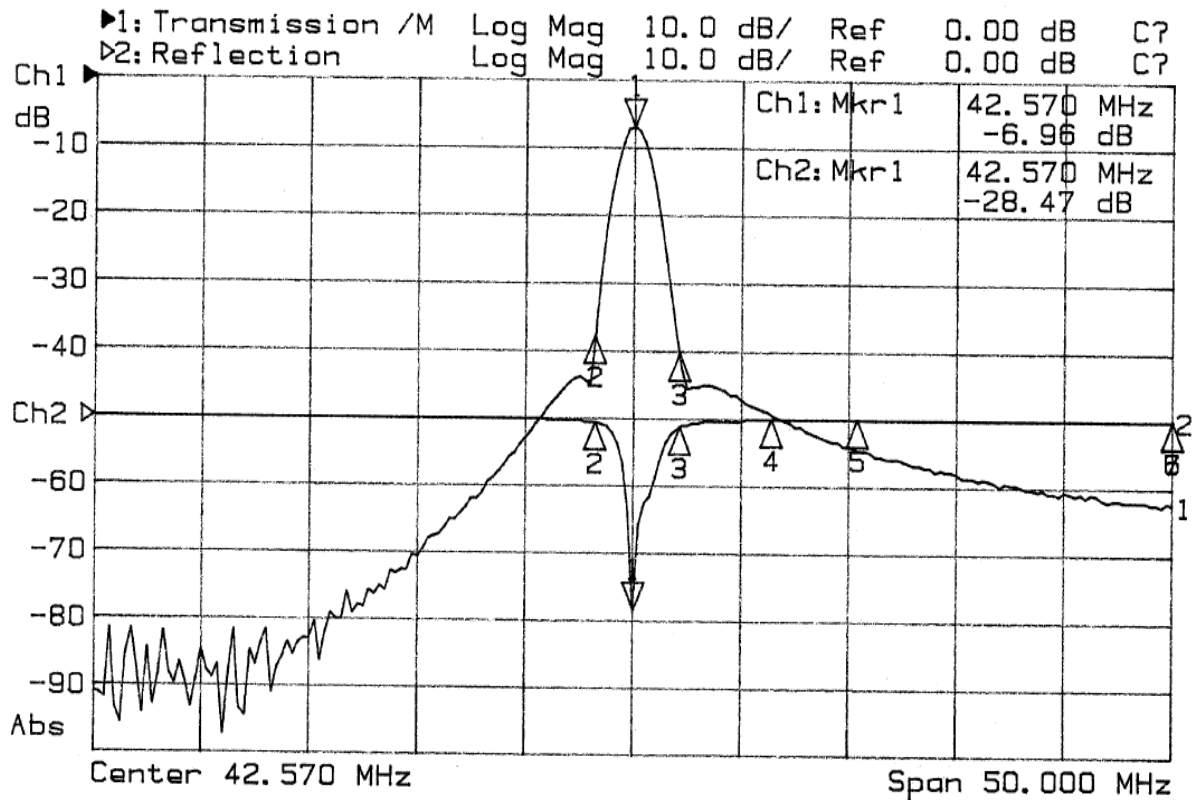
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## Response Plot:



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 42.57	-6.96	1> 42.57	-28.47
2: 40.80	-37.69	2: 40.80	-0.71
3: 44.70	-40.42	3: 44.70	-1.30
		4: 49.00	-0.08
		5: 53.00	-0.06
		6: 67.57	-0.10
		7: 67.57	-0.10