

**2 TO 4 GHz BANDPASS FILTER****AFL05290****FEATURES**

- Small Size
- Fully Shielded Component
- Frequency Stable over Temperature

**DESCRIPTION**

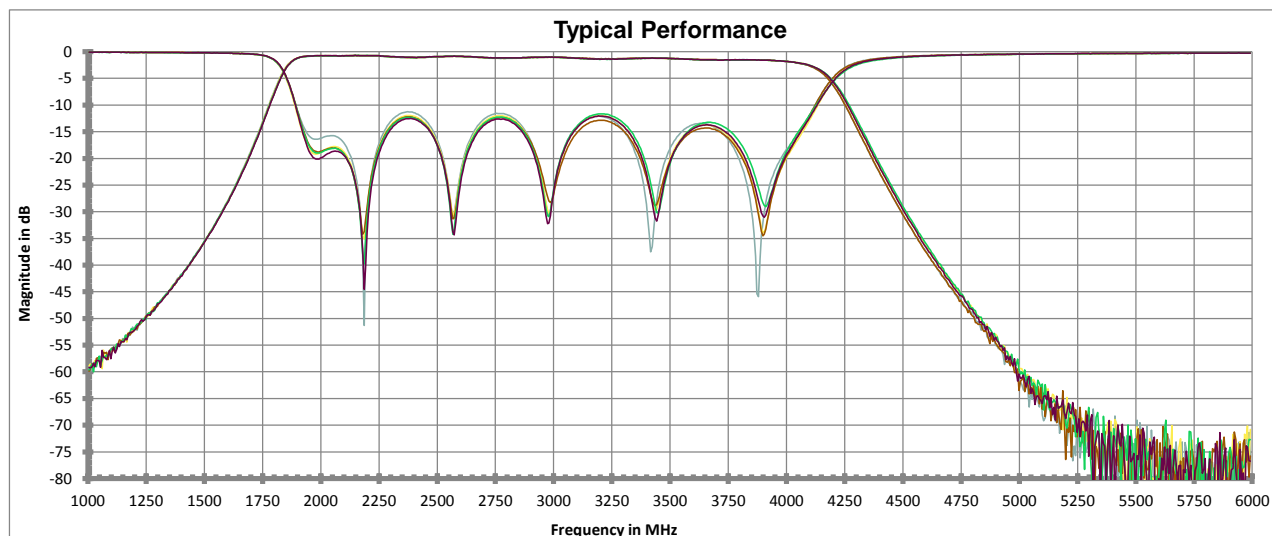
Surface mount, fully shielded, thin film filter designed for use on PCB 8-12 mils thick with permittivity of 3.0-3.8.

**Electrical Specifications**

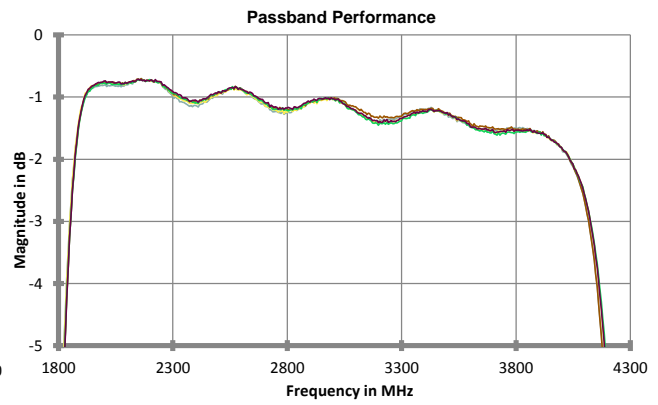
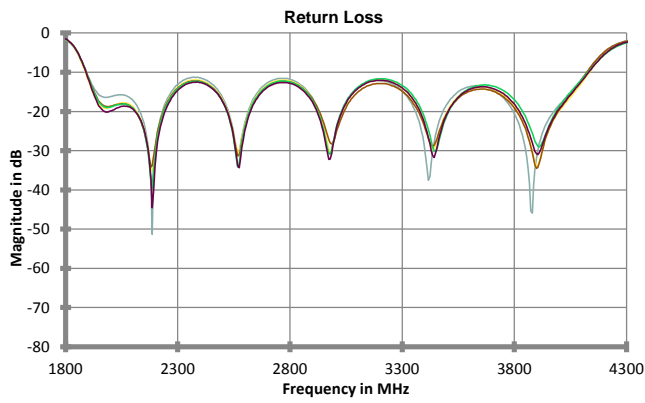
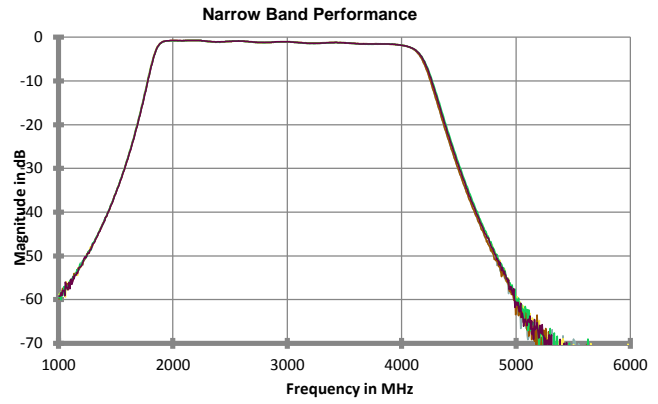
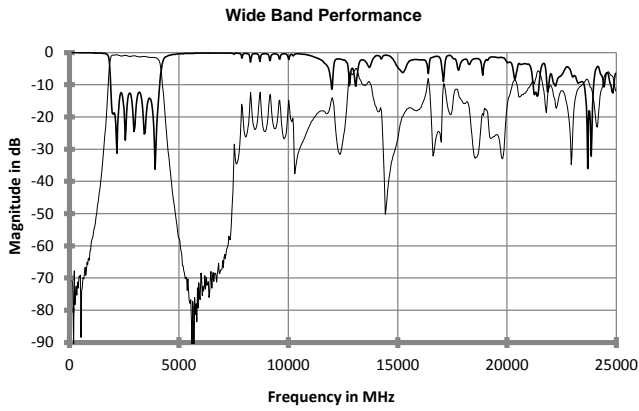
Center Frequency	3000 MHz	
Passband	2000 - 4000 MHz	
Insertion Loss (@Fc)	2.5 dB	@ 25C
	3.0 dB	-40C to +85C
VSWR	1.92:1	2000 MHz to 4000 MHz*
Rejection	40 dB	dc to 1250 MHz
	40 dB	4850 MHz to 6000 MHz
Usable Temp Range	-55 to +125 degree C	
*50 Ohm System		

**Mechanical**

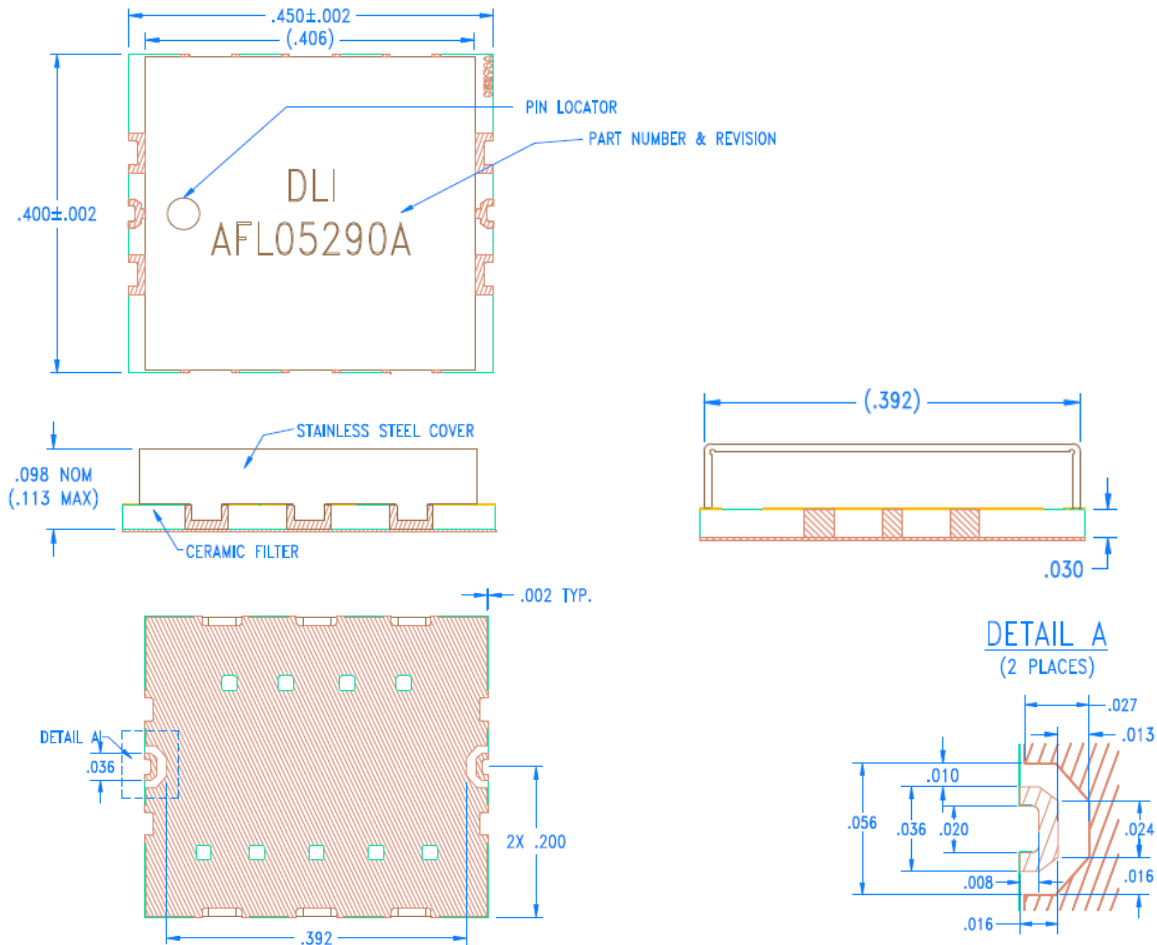
Footprint LxW	0.450 x 0.400 inch	inch
	[11.43 x10.16]	mm
Height	0.113 [2.87]	Inch [mm]



Catalog specifications subject to change without notice



**Mechanical Drawing**



All units in inches

**Mounting Information**

PCB ground pattern length and width can be 0.002-0.003 inches larger than filter footprint. Dimensions of filter launch and PCB launch pattern should be closely matched. It is suggested that PCB ground metal be pulled back from RF I/O trace to account for component alignment tolerance. Ground via depth and spacing should be set so as not to create any resonances at the frequency of operation. Reference SMT Filter Mounting application note for additional mounting information.



**Dielectric Laboratories, Inc.**

2777 Route 20 East, Cazenovia, NY 13035 USA  
 Phone: (315) 655-8710  
 Fax: (315)655-0445  
 Email: sales@dilabs.com

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