

1 575 MHz BANDPASS FILTER**AFL05235****FEATURES**

- L1 Band GPS
- Fully Shielded Component
- Frequency Stable over Temperature

DESCRIPTION

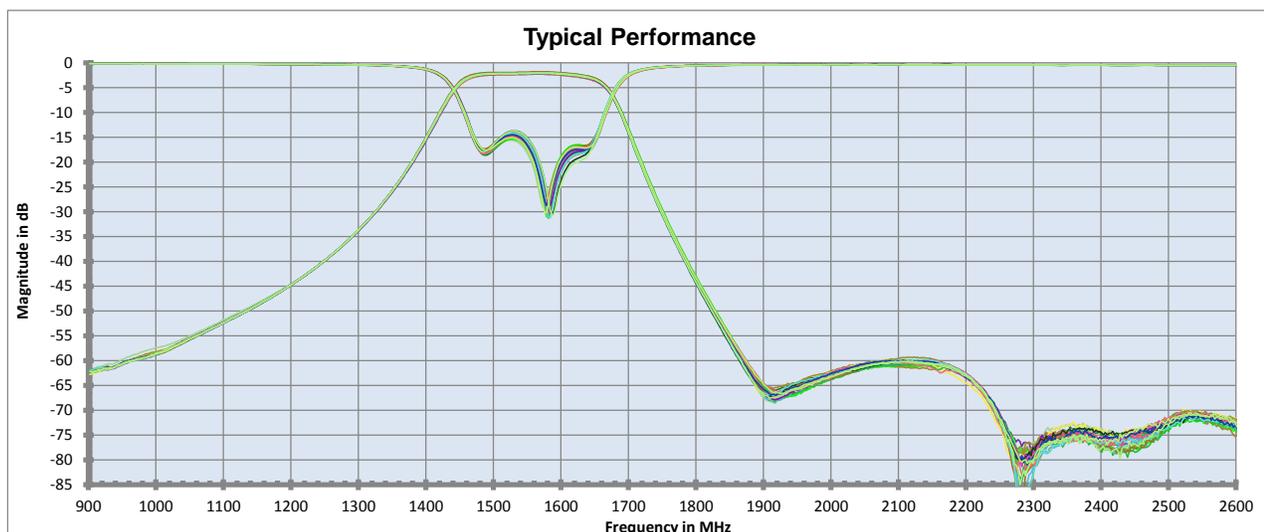
Surface mount, fully shielded, thin film ceramic filter manufactured using ceramic designed for use on PCB 8-12 mils thick with permittivity of 3.0-3.8.

Electrical Specifications

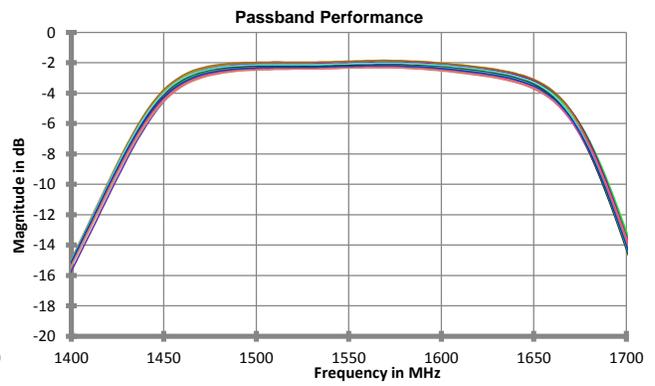
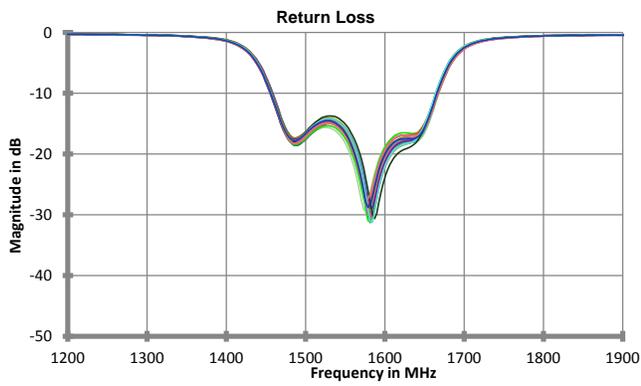
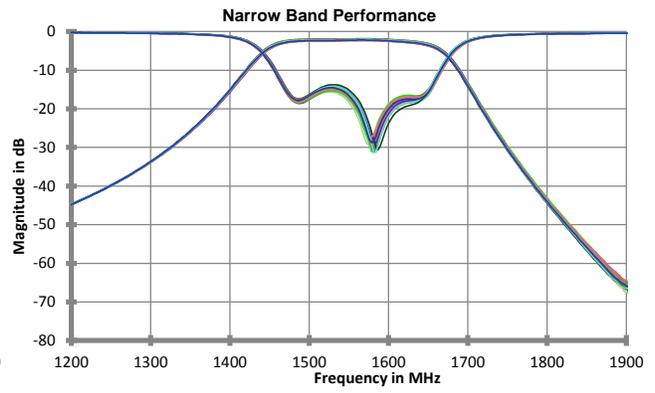
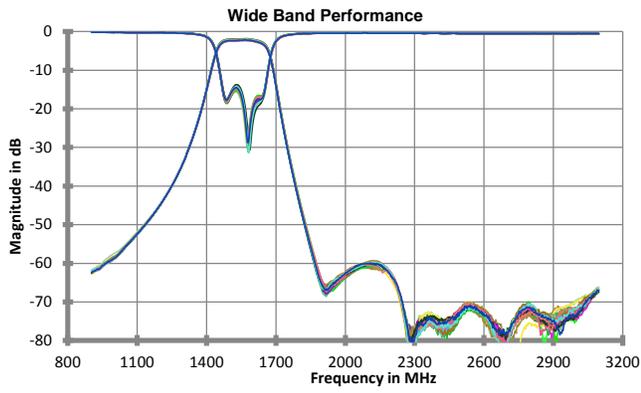
Center Frequency	1575 MHz	
Passband	1570 - 1580 MHz	
Insertion Loss (@ Passband)	3.5 dB	@ 25C
	4.00 dB	-40C to +85C
VSWR	2.0:1	1570 MHz to 1580 MHz*
Rejection	40 dB	DC to 1175 MHz
	40 dB	1875 MHz to 3000 MHz
Usable Temp Range	-55 to +125 degree C	
*50 Ohm System		

Mechanical

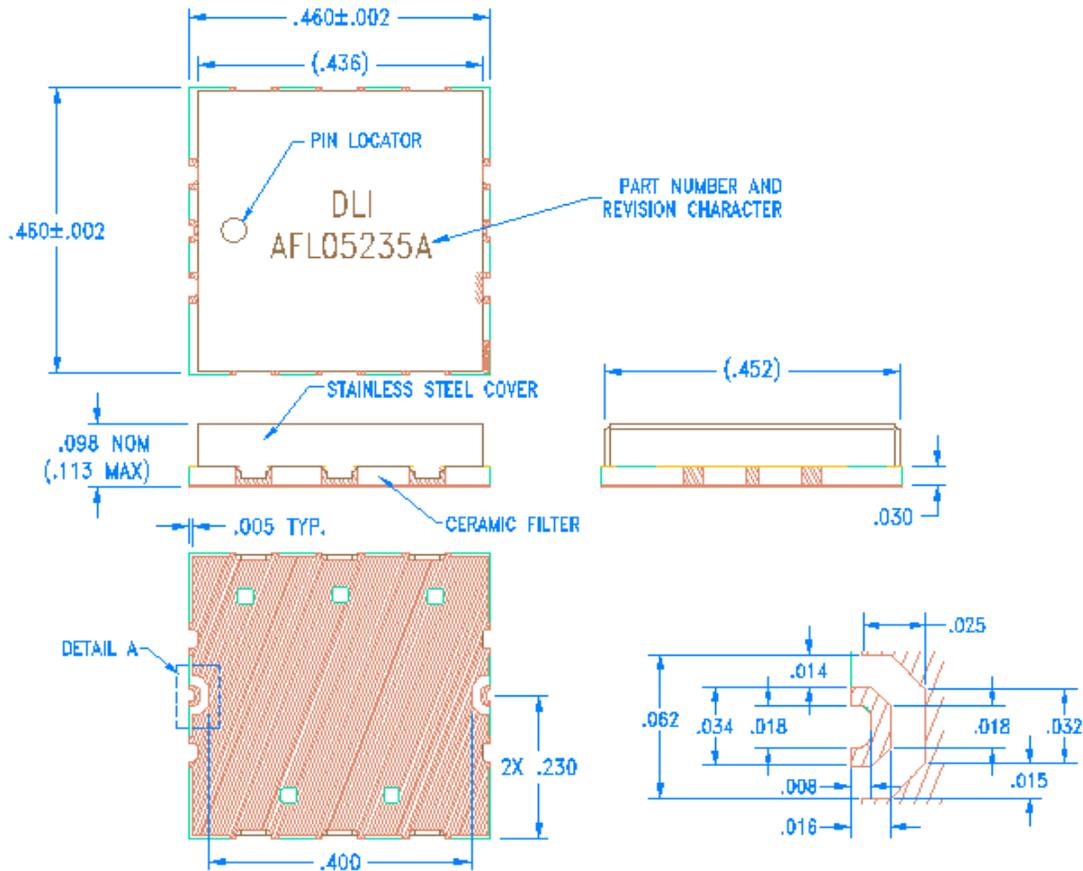
Footprint LxW	0.460 x 0.460	inch
	[11.68 x 11.68]	mm
Height	0.113 [2.87]	Inch [mm]



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.



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