



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**12 TO 18 GHZ BANDPASS FILTER****B148QF0S****FEATURES**

- Small Size
- Fully Shielded Component
- Frequency Stable over Temperature -55°C to +125°C

**DESCRIPTION**

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

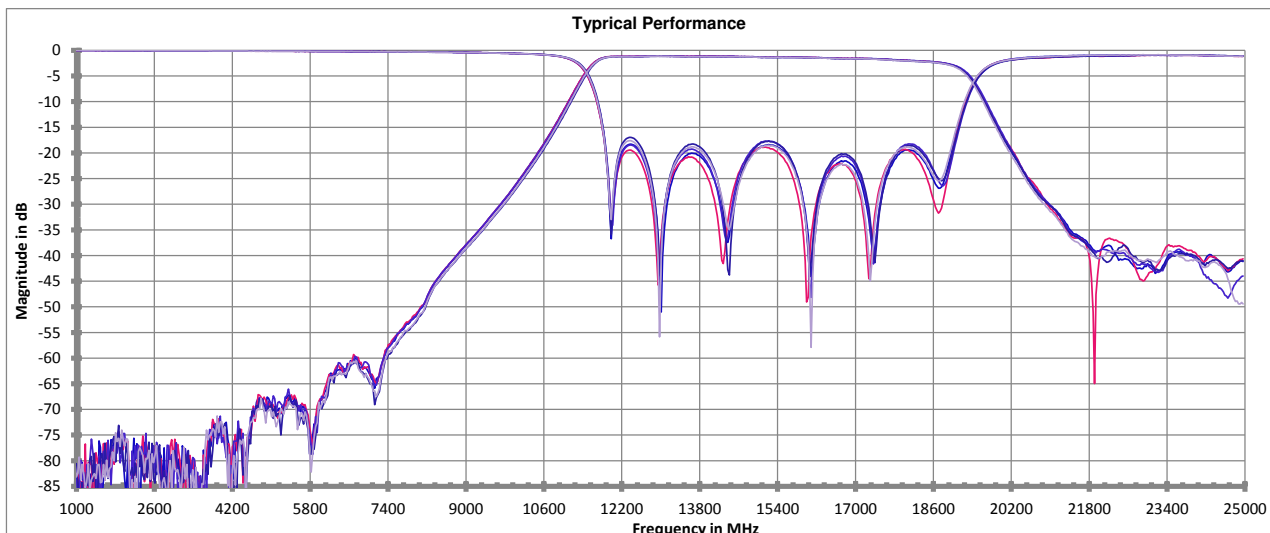
Applications include Ku-Band, Radar and Military Communications.

**Electrical Specifications**

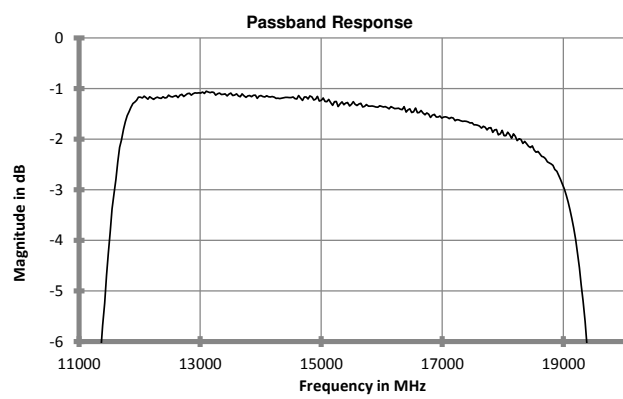
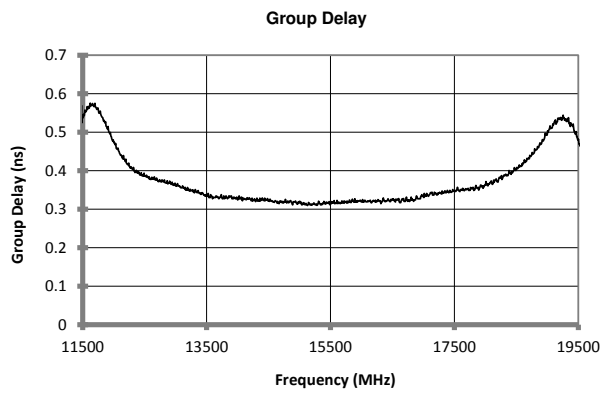
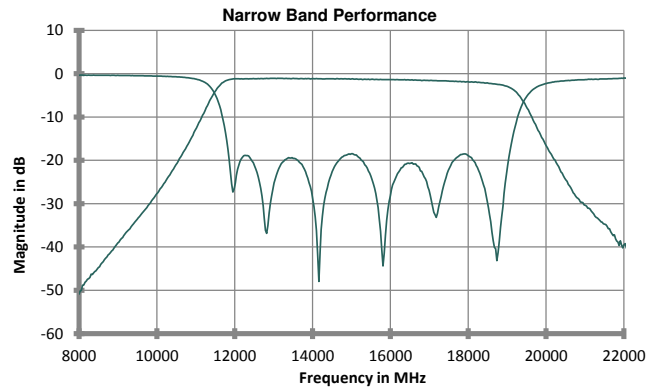
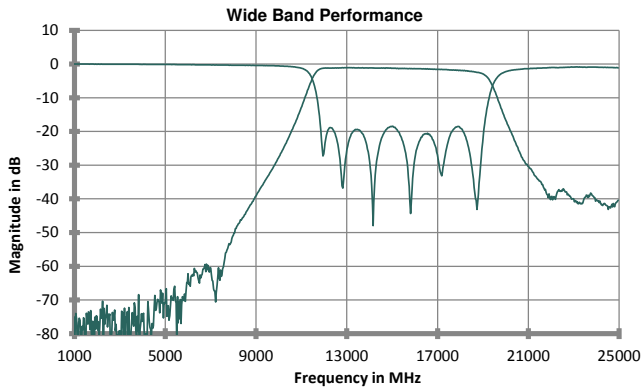
Center Frequency	15000 MHz	
Passband	12000 - 18000 MHz	
Insertion Loss (@Fc)	3.1 dB	@ 25°C
	3.6 dB	-40°C to +85°C
VSWR	1.67:1	12000 MHz to 18000 MHz*
Rejection	40 dB	dc to 7600 MHz
	30 dB	22500 MHz to 25000 MHz
Usable Temp Range	-55 to +125 degree C	
*50 Ohm System		

**Mechanical**

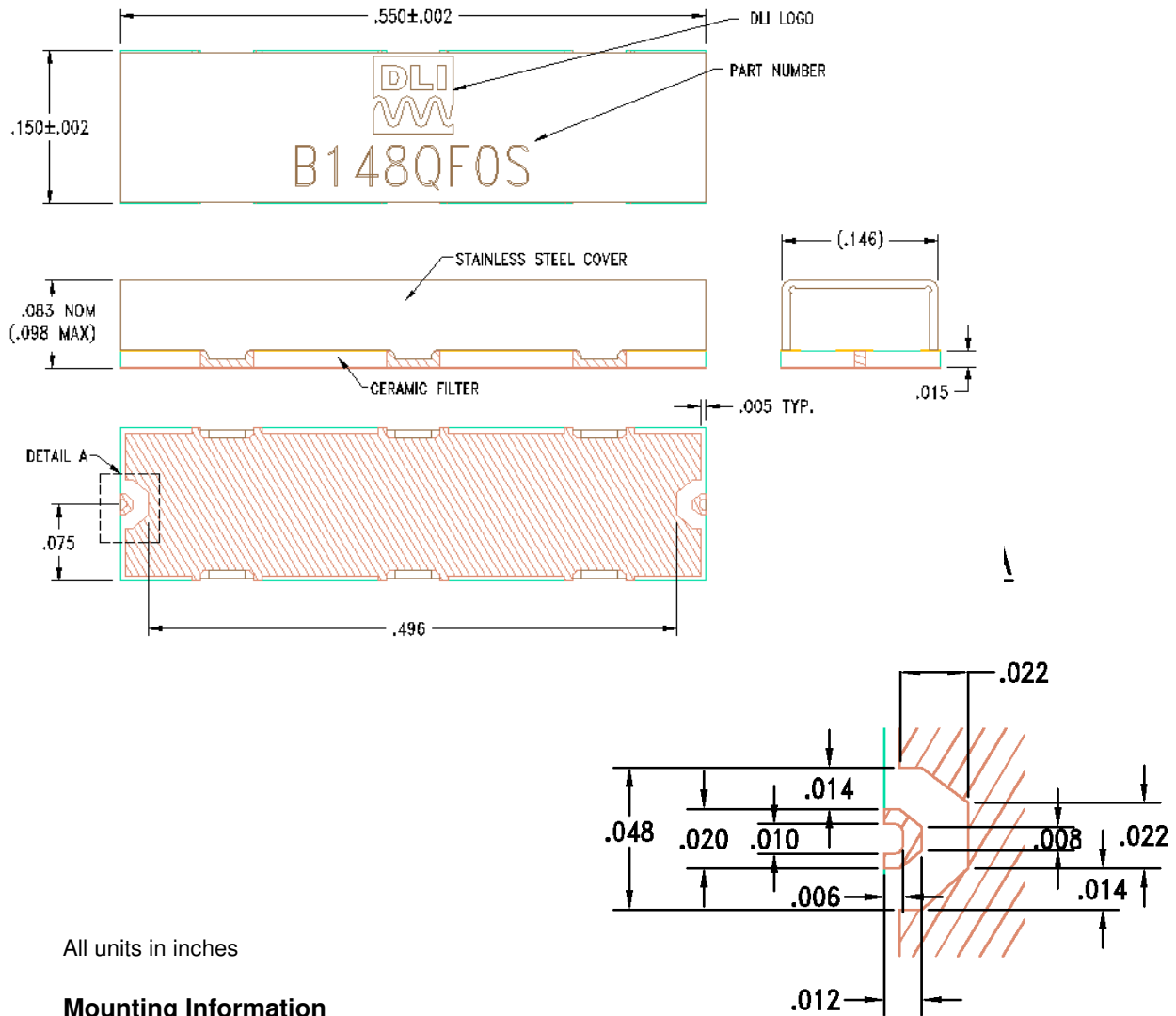
Footprint LxW	0.550 x 0.150	inch
	[13.97 x 3.81]	mm
Height	0.098 [2.49]	Inch [mm]



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.

