

Solder-In EMI Filter/Feedthrough

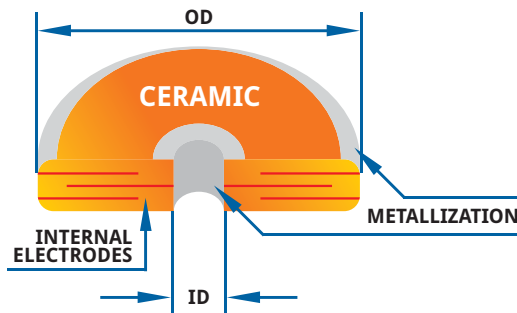
Gowanda 610 Series

GOWANDA®

Gowanda Solder-In filter/feedthroughs offer a robust design that can withstand harsh environments. The glass seal in combination with the monolithic ceramic discoidal capacitor with circumferential soldering of the ID and OD provide a hermetic barrier to the chassis or plate. These miniature filters are ideal for applications where small size and high performance are required. Always gold plated, Gowanda 610 Series filter/feedthroughs offer high conductivity and excellent solderability. C filter designs offer predictable insertion loss over the frequency range.

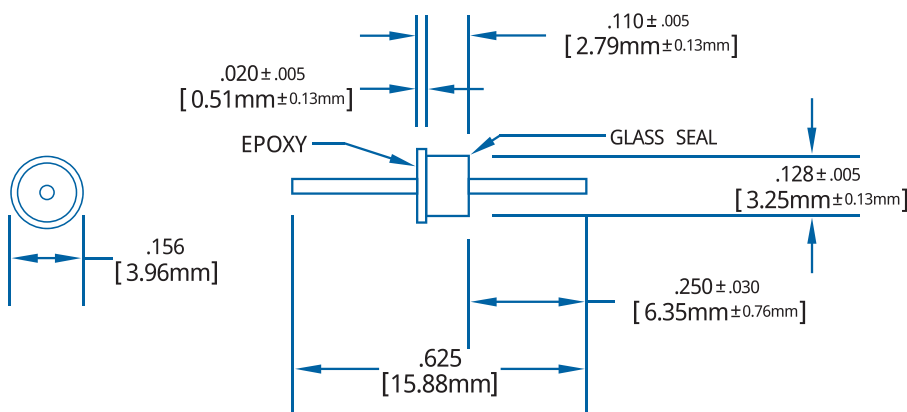
Features:

- Utilizes MLC discoidal capacitors, the “heart” of the filter
- Gold plated case offers superior solderability and conductivity
- Low ESR/ESL
- Infinite paths to ground allow for lowest impedance to ground available
- Better filtering than MLCC chips and more robust than tubular capacitors
- Now available in Kovar case for better thermal matching
- Colored dots indicate capacitance values
- Can be upscreened to MIL-PRF requirements
- Rated to 10 Amps
- Press fit style also available - contact factory for details



Applications:

- High Frequency/Microwave
- Telecom and Military Communications
- Multi-circuit filter assemblies
- Industrial Controls
- Oscillators
- Attenuators
- Low noise amplifiers
- High temperature applications



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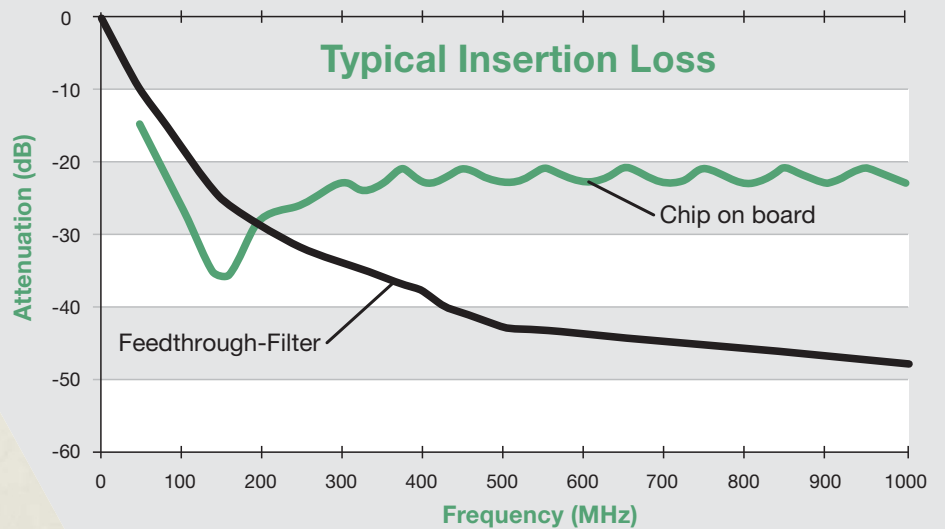
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How to Order:

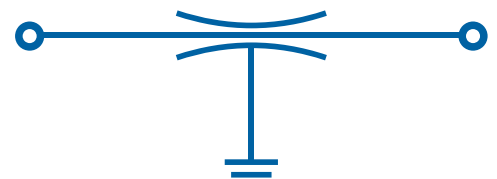
610	--	502	C	S	**
610= C-filter/Steel Case (Au plated) Alloy 52 lead-wire 611= same as 610 Except glass seal on flange end 612= same as 610 Except Kovar case (Au plated)	Placeholder	Capacitance code in PF, 1st 2 digits are significant, 3rd digit is number of zeros P tolerance assumed unless specified	Voltage rating A=50VDC B=100VDC C=200VDC D=300VDC	Lead-wire S=Standard M=Rounded leads	Special requirements (to be assigned by the factory)



Maximum Cap Values:

The below table gives the maximum cap values available and typical Insertion Loss performance by voltage rating:

Rated Voltage	50V	100V	200V	300V
Max Capacitance (NF) P tolerance assumed	120	100	33	27
Typical Insertion Loss (dB)				
1MHz	23	20	12	10
10MHz	41	38	32	28
100MHz	59	56	50	45
1GHz	>70	>70	65	62
10GHz	>70	>70	>70	>70



“C” CIRCUIT

Typical Insertion Loss Performance of Common Filters:

Gowanda P/N	Type	Cap Value	Voltage Rating	Current Rating	Insertion Loss (dB)				
					1MHz	10MHz	100MHz	1GHz	10GHz
610-101CS	C-Filter	100 pf	200VDC	10A			3	20	40
610-501CS	C-Filter	500 pf	200VDC	10A			15	34	40
610-122CS	C-Filter	1200 pf	200VDC	10A		4	20	40	55
610-272BS	C-Filter	2700 pf	100VDC	10A		10	25	40	60
610-502BS	C-Filter	5000 pf	100VDC	10A		15	30	50	70
610-502CS	C-Filter	5000 pf	200VDC	10A		15	30	50	70
610-153BS	C-Filter	15,000 pf	100VDC	10A	7	25	40	60	>70
610-333AS	C-Filter	33,000 pf	50VDC	10A	12	32	50	65	>70

Typical Insertion Loss - FT Capacitors

