



**Operating Temperature:**

-55°C to +125°C

**Operating Voltage:**

50 VDC, 100 VDC, 200 VDC

**Rated Current:**

10 Amperes maximum

**Dielectric Strength:**

Twice DC Operating Voltage @ +25°C,  
50 mA maximum charging current.

**Insulation Resistance:**

Measured with rated DC voltage,  
1000 megohm-microfarad or 100,000  
megohms minimum, whichever is less,  
50 mA maximum charging current,  
@ +25 after two minutes.

**Insertion Loss:**

At -55°C to +125°C, the insertion loss  
will decrease a maximum of 3 dB from  
the +25°C value.

**Military Specifications:**

Meets or exceeds the applicable  
parameters of MIL-PRF-28861.

**Housing (Hermetically Sealed):**

High purity gold plating is standard,  
Electro-tin-lead plating or silver is  
available upon request.

**DC Resistance:**

.010 ohms maximum.

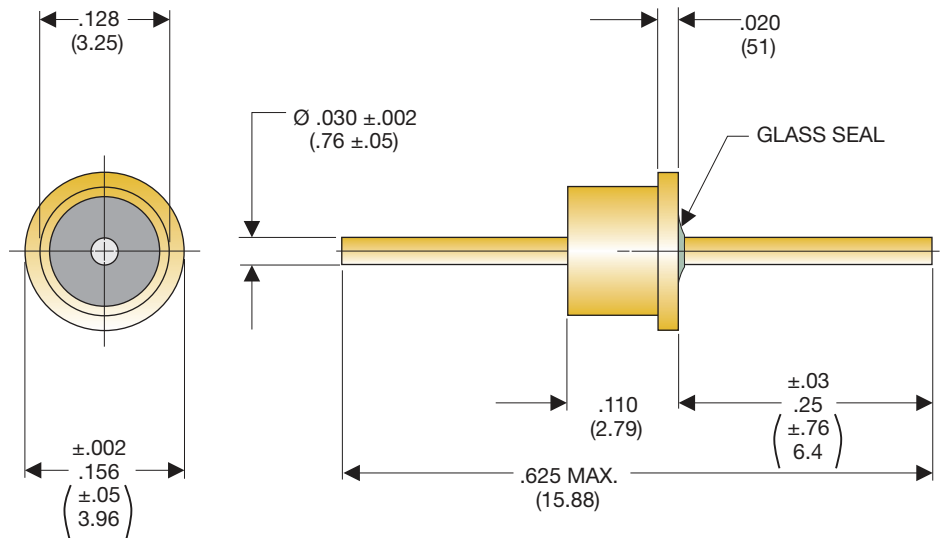
**Material:**

Case: Cold Rolled Steel  
Lead: Alloy 52

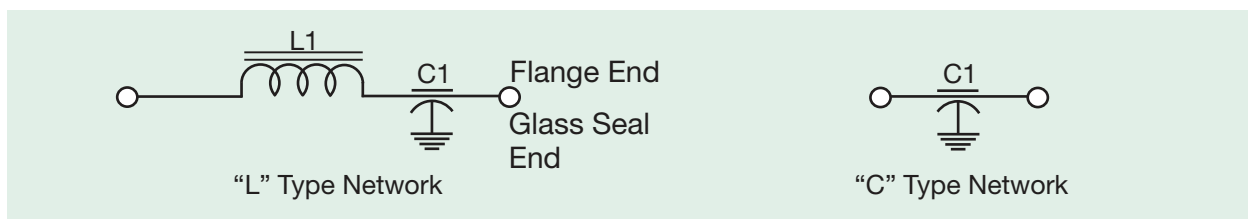
**Marking:**

None

## Hermetically Sealed (DC Applications)



Part numbers listed on following page.





# Solder-In Style EMI Filters

PART NUMBER	CAPACITANCE pF +100%, - 0%	CIRCUIT	WORKING VOLTAGE DC VOLTS	MINIMUM INSERTION LOSS (Db) At +25°C IN ACCORDANCE WITH MIL-STD-220 <sup>1,2</sup>					
				1 MHz	10 MHz	100 MHz	200 MHz	1 GHz	10 GHz
CF 12-001	15,000	L	50	7	25	45	50	60	60
CF 12-003	2,700	L	100	-	10	28	32	50	60
CF 12-005	5,000	L	100	-	15	30	38	55	60
CF 12-007	10	L	200	-	-	-	-	15	20
CF 12-009	25	L	200	-	-	-	-	20	25
CF 12-011	100	L	200	-	-	5	10	30	40
CF 12-013	500	L	200	-	-	20	25	40	55
CF 12-015	1,000	L	200	-	4	25	30	45	55
CF 12-002	15,000	C	50	7	25	40	45	60	60
CF 12-004	2,700	C	100	-	10	25	30	50	60
CF 12-006	5,000	C	100	-	15	30	35	50	60
CF 12-008	10	C	200	-	-	-	-	5	20
CF 12-010	25	C	200	-	-	-	-	10	25
CF 12-012	100	C	200	-	-	3	5	20	35
CF 12-014	500	C	200	-	-	15	20	34	50
CF 12-016	1,000	C	200	-	4	20	25	40	55

1 Insertion loss measurements shall be made under full load over the frequency range of 1.0 MHz to 10 MHz. Insertion loss measurements above this frequency range under no load.  
2 The insertion loss requirements between any two adjacent specified frequencies shall be that of the lower of the two frequencies in order to accommodate resonant dips.

## Applications

The CF 12 filter series provides effective filtering over the frequency range of 1 MHz to 10 GHz, which makes it ideal for RF and microwave applications. Designed to be soldered into a housing or bulkhead, it is ideal for high impedance circuits where large capacitance values are not practical. The “L” circuit incorporates an internal ferrite bead that provides both inductance and resistance (lossy characteristics) which improves insertion loss.