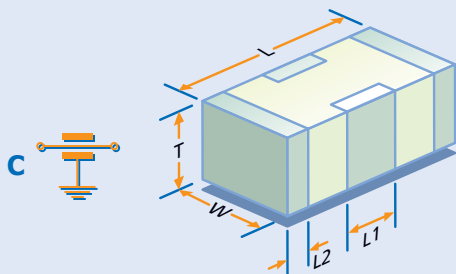


# Surface Mount EMI Filters

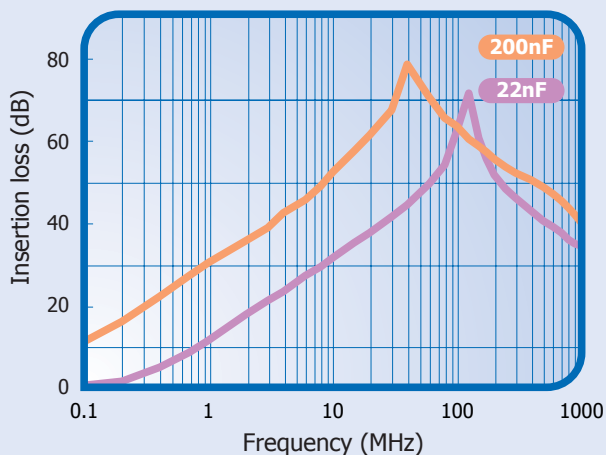
## High Current 3 Terminal EMI Chips

**E07**

The high current 3 terminal chips are an extension to the Syfer 3 terminal EMI chip range, and are capable of carrying currents up to 2A. Suitable for use on DC lines on pcbs, they can prevent the radiation of interference emanating from high speed signal lines and IC's and also prevent the propagation of high frequency noise on power lines. Improved high frequency filtering performance is offered as a result of the DC current being fed directly through the EMI chip.



50 ohm system



Typical performance is shown in the graph above. The actual performance will be influenced by the amount of series inductance added by the interconnections.

### Specifications

Dimensions mm (inches)

	0805	1206
L	2.0 ± 0.3 (0.079 ± 0.012)	3.2 ± 0.3 (0.126 ± 0.012)
W	1.25 ± 0.2 (0.049 ± 0.008)	1.6 ± 0.2 (0.063 ± 0.008)
T	1.0 ± 0.15 (0.039 ± 0.006)	1.3 max. (0.05)
L1	0.60 ± 0.2 (0.024 ± 0.008)	0.95 ± 0.3 (0.037 ± 0.012)
L2	0.3 ± 0.15 (0.012 ± 0.006)	0.5 ± 0.25 (0.02 ± 0.01)

### 1806

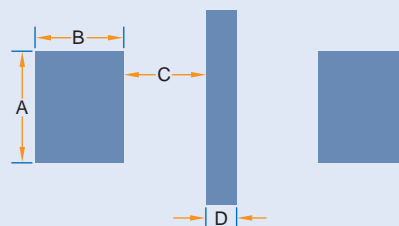
L	4.5 ± 0.35 (0.177 ± 0.014)
W	1.6 ± 0.2 (0.063 ± 0.008)
T	1.3 max. (0.05)
L1	1.4 ± 0.3 (0.055 ± 0.012)
L2	0.5 ± 0.25 (0.02 ± 0.01)

Electrical Configuration  
Capacitance Measurement  
Temperature Rating  
Voltage Proof

C Filters  
At 1000hr point  
-55°C to 85°C  
125V DC

	0805	1206	1806
Capacitance(max)	3.3nF	22nF	200nF
Tolerance	±20%	±20%	±20%
Current Rating	1A	2A	2A
Rated Voltage	100V DC	50V DC	50V DC
Insulation Resistance	100Gohms or 1000S, whichever is the less		
DC Resistance	<0.050 ohms	<0.050 ohms	<0.040 ohms
Solderability	IEC 68-2-20	IEC 68-2-20	IEC 68-2-20

### Recommended Solder Lands



Dimensions mm (inches)

Chip Size	A	B	C	D
0805	0.95 (0.037)	0.9 (0.035)	0.3 (0.012)	0.4 (0.016)
1206	1.2 (0.047)	0.9 (0.035)	0.6 (0.024)	0.8 (0.03)
1806	1.2 (0.047)	1.4 (0.055)	0.8 (0.03)	1.4 (0.055)

Reeled quantities	0805	1206	1806
178mm (7") reel	3000	2500	2500
330mm (13") reel	12000	10000	10000

### Ordering Information

#### 3 Terminal SM Chips

1206	J	050	0223	M	X	T	E01
<b>Chip Size Reference</b> 0805 1206 1806	<b>Termination</b> J = Nickel Barrier Y = FlexiCap™	<b>Voltage</b> 050 = 50 volts 100 = 100 volts	<b>Capacitance</b> Expressed in picofarads (pF). First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following. Example: 0223=22,000pF.	<b>Tolerance</b> M= ±20%	<b>Dielectric</b> C = C0G X = X7R	<b>Packaging</b> T = Taped B = Bulk R = Large reel	<b>Range</b> E01 E07

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