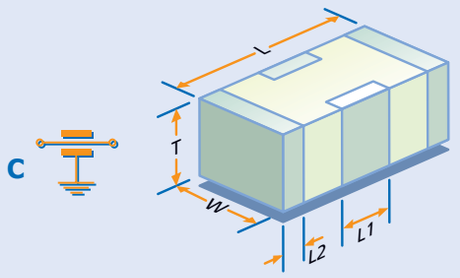
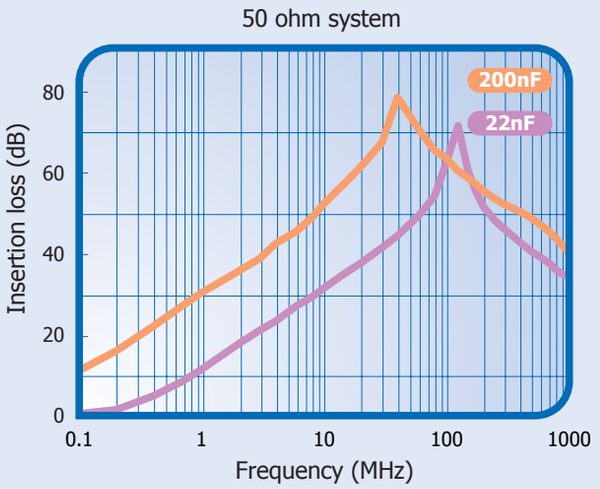
Surface Mount EMI Filters

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.





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)	1.1 ± 0.2 (0.043 ± 0.008)
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)

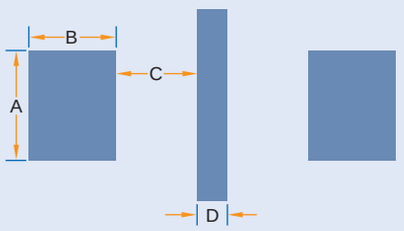
	1806
L	4.5 ± 0.35 (0.177 ± 0.014)
W	1.6 ± 0.2 (0.063 ± 0.008)
T	1.1 ± 0.2 (0.043 ± 0.008)
L1	1.4 ± 0.3 (0.055 ± 0.012)
L2	0.5 ± 0.25 (0.02 ± 0.01)

Electrical Configuration	*C Filters*
Capacitance Measurement	*At 1000hr point*
Current Rating	*0805 1A, 1206 & 1806 2A*
Temperature Rating	*-55°C to 125°C*
Capacitance Tolerance	*±20%*
Rated Voltage	*100V DC, 50V DC where shown*
Voltage Proof	*2.5 x Rated Volts for 5 seconds. Charging current limited to 50mA max.*
Insulation Resistance	*100Gohms or 1000S, whichever is the less*
DC Resistance (max.)	*<0.06 Ohms*
Solderability	*IEC 68 - 2 - 20*

1A 0805 X7R	2A 1206 X7R	2A 1806 X7R
1.0nF	10nF	22nF
1.5nF	15nF	33nF
2.2nF	22nF	47nF/50V
3.3nF	33nF/50V	68nF/50V
4.7nF/50V	47nF/50V	100nF/50V
6.8nF/50V	68nF/50V	150nF/50V
10nF/50V	100nF/50V	200nF/50V
15nF/50V		
22nF/50V		
33nF/50V		
47nF/50V		

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

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)

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