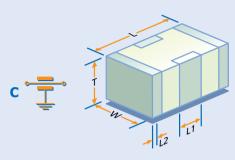
Surface Mount EMI Filters 3 Terminal EMI Chips

E01

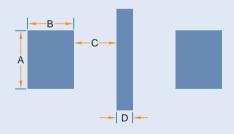
These 3 terminal chips are ideally suited for EMI suppression in digital circuits and other signal lines, and are available in 0805, 1206 and 1806 size. While the signal or dc current passes directly through the EMI chip, unwanted noise is suppressed by the grounding of the high frequency component. COG and X7R dielectric types are available, providing capacitance values from 22pF to 200nF.



50 ohm system 80 Insertion loss (dB) 60 0 1000 0.1 1 10 100 Frequency (MHz)

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

Recommended Solder Lands



	Dimensions mm (inches)			
Chip Size	Α	В	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)

Specifications

Dimensions mm (inches)

	0805	1206
L	$2.0 \pm 0.3 (0.079 \pm 0.012)$	$3.2 \pm 0.3 \ (0.126 \pm 0.012)$
W	$1.25 \pm 0.2 \ (0.049 \pm 0.008)$	$1.6 \pm 0.2 \ (0.063 \pm 0.008)$
Т	$1.0 \pm 0.15 (0.039 \pm 0.006)$	$1.1 \pm 0.2 \ (0.043 \pm 0.008)$
L1	$0.60 \pm 0.2 \ (0.024 \pm 0.008)$	$0.95 \pm 0.3 (0.037 \pm 0.012)$
L2	$0.3 \pm 0.15 (0.012 \pm 0.006)$	$0.5 \pm 0.25 (0.02 \pm 0.01)$
		1006

1806

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

Electrical Configuration Capacitance Measurement **Current Rating Temperature Rating Capacitance Tolerance** . Rated Voltage Voltage Proof

Insulation Resistance DC Resistance (max.) **Solderability**

C Filters At 1000hr point 300mA dc -55°C to 125°C ±20% 100V DC, 50V DC where shown 2.5 x Rated Volts for 5 seconds. Charging current limited to 50mA max. 100Gohms or 1000S, whichever is the less 0.35 ohms (1206 & 1806), 0.4 ohms (0805) IEC 68 - 2 - 20

0805		12	1206		306	
	COG	X7R	COG	X7R	COG	X7R
	22pF	1.0nF	22pF	2.2nF	22pF	2.2nF
	47pF	2.2nF	47pF	4.7nF	47pF	4.7nF
	100pF	4.7nF	100pF	10nF	100pF	10nF
	220pF	10nF	220pF	22nF/50V	220pF	22nF
	470pF	22nF/50V	470pF	47nF/50V	470pF	47nF
	560pF	47nF/50V	1.0nF	100nF/50V	1.0nF	100nF/50V
	820nF/50V				2.2nF	200nF/50V

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

