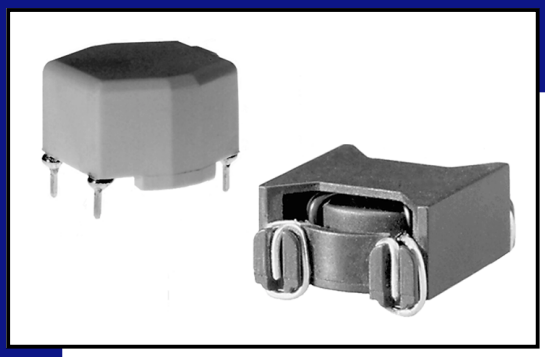
COMMON MODE CHOKES
WCM 501 Series



PRODUCT DESCRIPTION

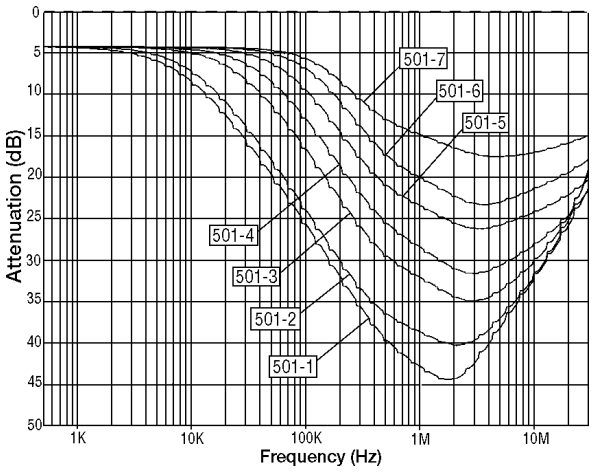
WC Magnetics' 501 series common mode chokes are designed to attenuate common mode line noise in switching power supplies. These chokes provide excellent attenuation of common mode noise at frequencies from 100 KHz to 30 Mhz. They are offered in two package styles. A low profile surface mount package is compatible with pick and place equipment. A larger through-hole package offers greater attenuation and is also compatible with pick and place equipment.

FEATURES - BENEFITS

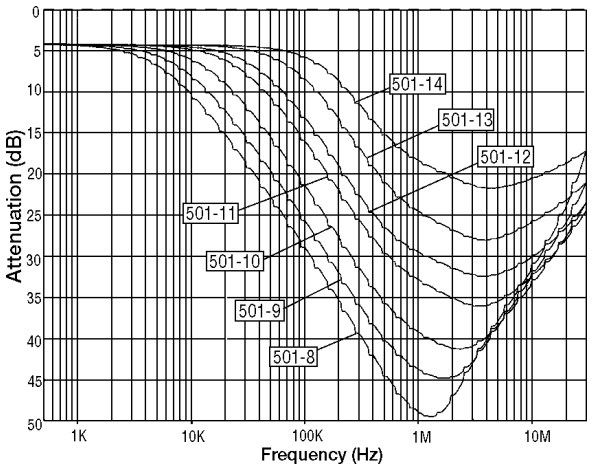
Low profile, surface mount option • Minimum 3mm clearance between windings • High attenuation in a small package • DC currents up to 11 amps • Application specific designs available on request

Part Number	Minimum Inductance (µH)	Rated DC Current (amps) 40° C Temp Rise	Rated DC Current (amps) 25° C Temp Rise	Max Leakage Inductance (µH)	Max DCR (milliohms)	Interwinding Isolation Vrms	Mount Style
501-01	1980	0.8	0.6	42.5	347	1500	Surface Mount
501-02	1267	1.0	0.8	27.8	180	1500	Surface Mount
501-03	636	1.4	1.1	14.3	82	1500	Surface Mount
501-04	431	2.0	1.5	10.2	43	1500	Surface Mount
501-05	220	2.8	2.2	5.7	20	1500	Surface Mount
501-06	141	4.0	3.1	3.9	10	1500	Surface Mount
501-07	79	5.7	4.4	2.6	5	1500	Surface Mount
501-08	2812	1.4	1.1	48.0	204	1500	Through Hole
501-09	2013	2.0	1.5	31.5	105	1500	Through Hole
501-10	1065	2.8	2.2	17.3	54	1500	Through Hole
501-11	599	4.0	3.1	12.0	25	1500	Through Hole
501-12	416	5.7	4.4	7.1	13	1500	Through Hole
501-13	204	8.1	6.3	4.1	6	1500	Through Hole
501-14	104	11.2	8.9	2.9	2	1500	Through Hole

COMMON MODE ATTENUATION - Surface Mount Style



COMMON MODE ATTENUATION - Through Hole Style

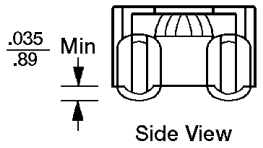


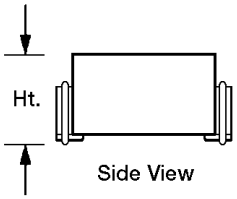
Note: Attenuation measured in 50 ohm circuit on HP3577A Network Analyzer

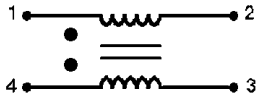
COMMON MODE CHOKES
WCM 501 Series

Dimensions: Inches / mm

Surface Mount Option

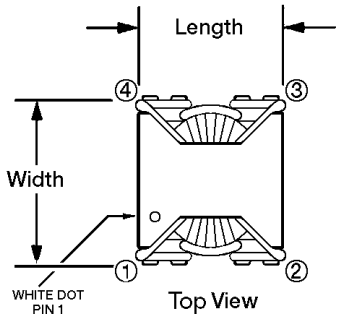


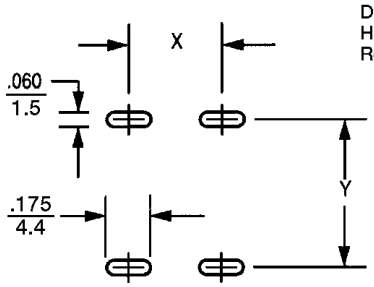




Moulding: Ryton R4
Rating: UL 94-VO
Terminals: Copper/Zinc 60/40 Tin plated

Dimensional Tolerance Length, Width = ±0.010/.25
Height Dimension = Maximum
Recommended Tolerance X,Y = ±0.005/13

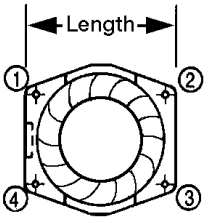




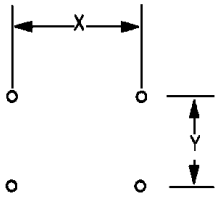
SUGGESTED PCB LAYOUT

Length	Width	Height	X	Y
.650 / 16.5	.750 / 19.1	.400 / 10.2	.445 / 11.3	.660 / 16.8

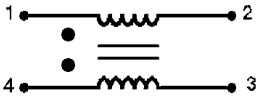
Through Hole Option



Bottom View

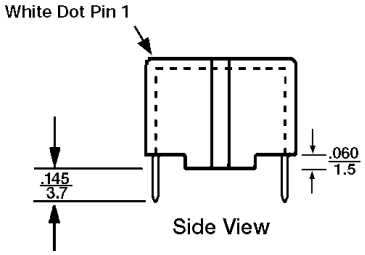


SUGGESTED PCB LAYOUT

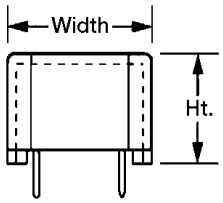


Moulding: Ryton R4
Rating: UL 94-VO
Terminals: Copper/Zinc 60/40 Tin plated

Dimensional Tolerance Length, Width = ±0.010
Height Dimension = Maximum
Pin diameter = .026/.66
Pin length = .145/3.7 ±.020/0.5



Side View



Side View

Length	Width	Height	X	Y
.880 / 22.4	.890 / 22.6	.570 / 14.5	.787 / 20.0	.492 / 12.5