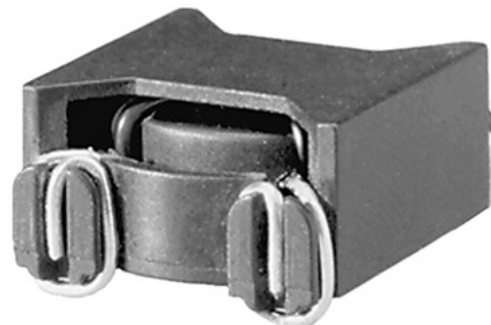


WCM501 Series

Common Mode Chokes

Product Description

West Coast Magnetics' 501 series common mode chokes are designed to attenuate common mode line noise in switching power supplies. These chokes provide a typical minimum 15 dB of attenuation 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 and 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

Engineering Data

Product Code	Minimum Inductance (μH)	Rated DC Current (amps) 40°C Temp Rise	Rated DC Current (amps) 25°C Temp Rise	Maximum Leakage Inductance (μH)	Maximum DCR (mOhms)	Interwinding Hypot (Vac)	Mount Style
WCM501-01	1980	0.8	0.6	42.5	347	1500	Surface Mount
WCM501-02	1267	1.0	0.8	27.8	180	1500	Surface Mount
WCM501-03	636	1.4	1.1	14.3	82	1500	Surface Mount
WCM501-04	431	2.0	1.5	10.2	43	1500	Surface Mount
WCM501-05	220	2.8	2.2	5.7	20	1500	Surface Mount
WCM501-06	141	4.0	3.1	3.9	10	1500	Surface Mount
WCM501-07	79	5.7	4.4	2.6	5	1500	Surface Mount
WCM501-08	2812	1.4	1.1	48.0	204	1500	Through Hole
WCM501-09	2013	2.0	1.5	31.5	105	1500	Through Hole
WCM501-10	1065	2.8	2.2	17.3	54	1500	Through Hole

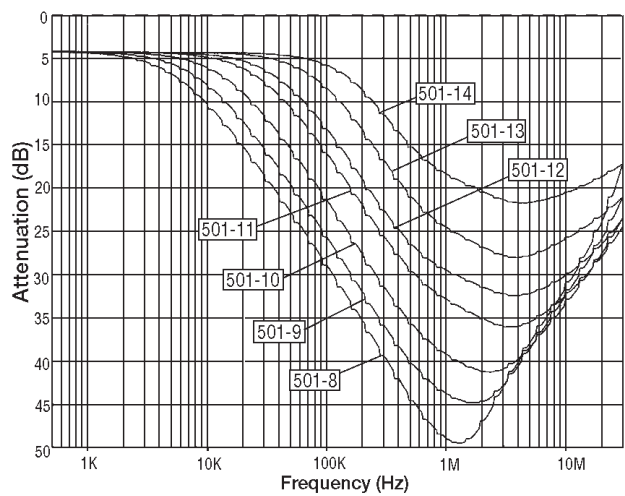


Engineering Data Continued

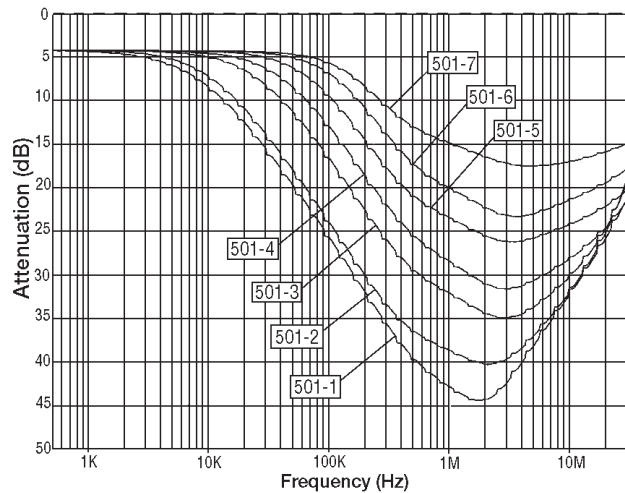
Product Code	Minimum Inductance (μH)	Rated DC Current (amps) 40°C Temp Rise	Rated DC Current (amps) 25°C Temp Rise	Maximum Leakage Inductance (μH)	Maximum DCR (mOhms)	Interwinding Hypot (Vac)	Mount Style
WCM501-11	599	4.0	3.1	12.0	25	1500	Through Hole
WCM501-12	416	5.7	4.4	7.1	13	1500	Through Hole
WCM501-13	204	8.1	6.3	4.1	6	1500	Through Hole
WCM501-14	104	11.2	8.9	2.9	2	1500	Through Hole

Graphs WCM501 Series

Common Mode Attenuation - Surface Mount Style

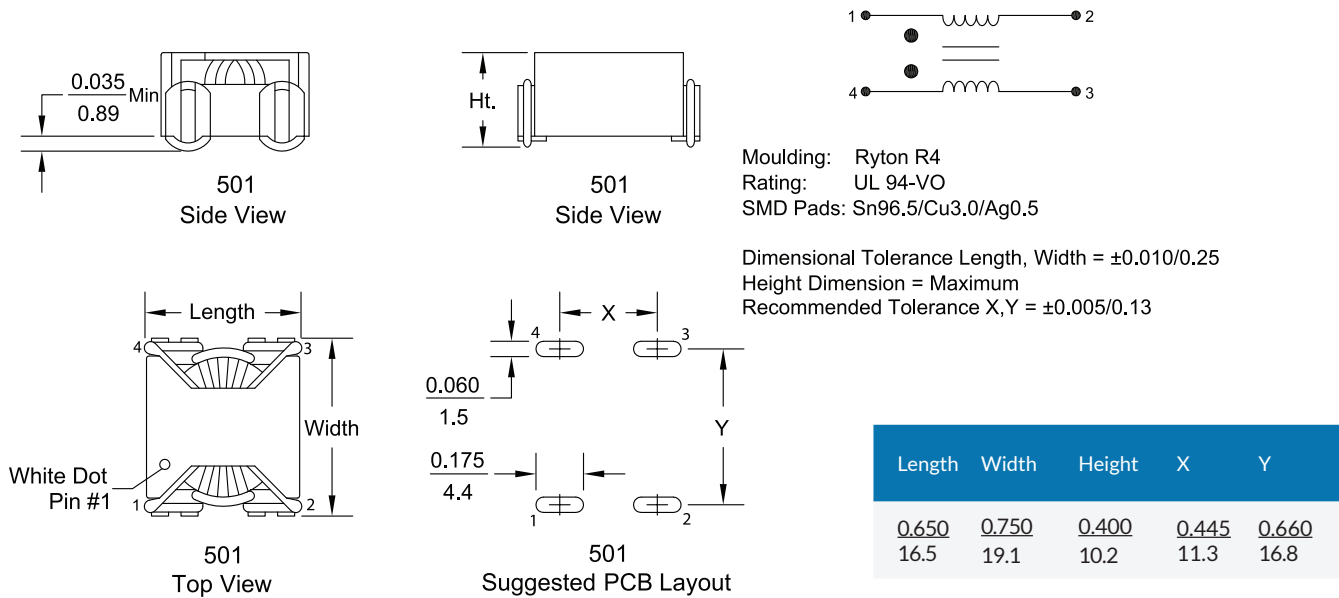


Common Mode Attenuation - Through Hole Style

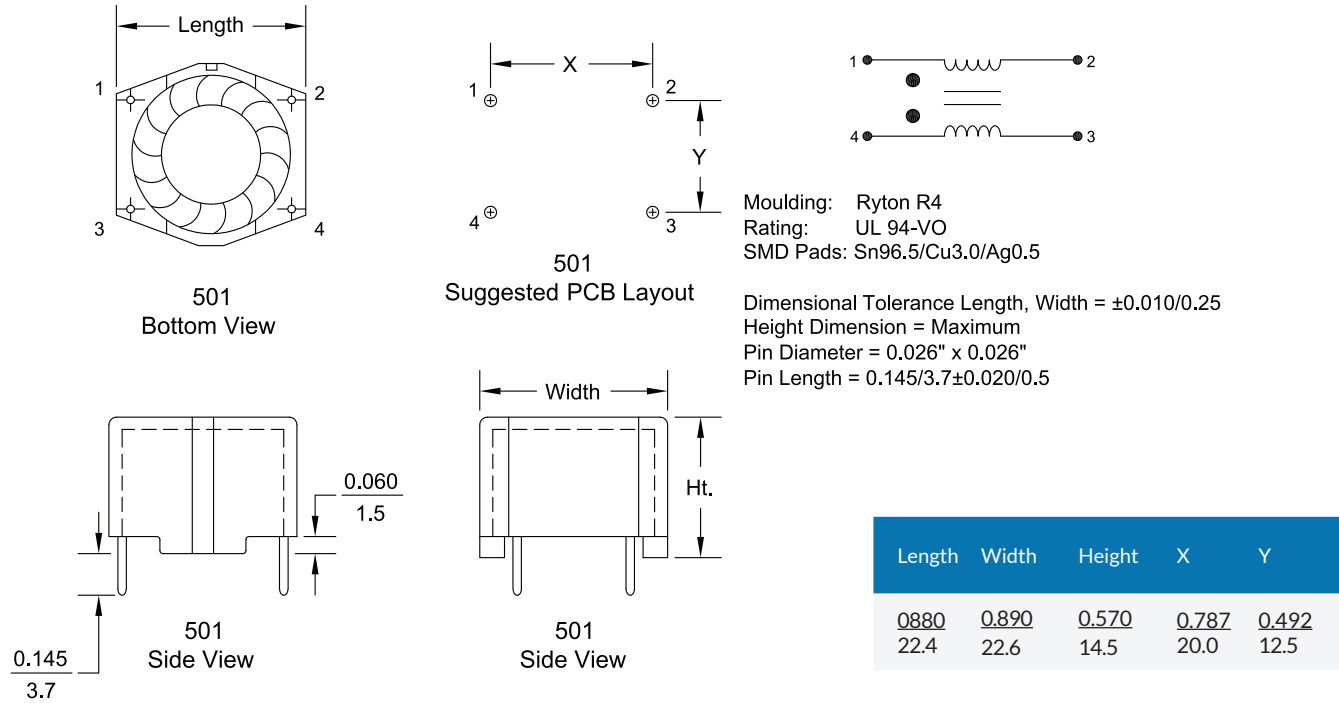


Note:
Attenuation measured in 50 Ohm circuit on HP3577A Network Analyzer

SURFACE MOUNT OPTION



THROUGH HOLE OPTION



Dimensions:

Inches
mm

Note:

Please specify vertical or horizontal mount with your order.

*All materials of construction minimum Class B 130° C rated.