

WCM505 Series

Common Mode Chokes

Product Description

West Coast Magnetics' 505 series provides very high attenuation of common mode noise for lower current level applications. This choke provides 5000 Ohms of impedance from 200 kHz to 6 MHz for low power applications. At the maximum rated RMS current level of 9amps, 100 Ohms of noise impedance are available up to 70 MHz. The 505 series package is a compact SMD carrier. This common mode choke features 1500 Vac of isolation between windings, which meets most low power safety agency standards.

Features and Benefits

Very high common mode noise attenuation for low power applications –
Power handling to 9amps – Compact SMD package – 1500 Vac winding to winding isolation – Tape and reel available



Engineering Data

Product Code	Nominal Inductance (μH)	Rated RMS Current (amps) 40°C Temp Rise	Rated RMS Current (amps) 60°C Temp Rise	Rated RMS Current (amps) 80°C Temp Rise	Typical Leakage Inductance (μH)	Nominal DCR (Ω)	Hypot (Vac)
WCM505-01	100	5.65	8.80	8.99	0.7	0.003	1500
WCM505-02	150	5.35	7.45	8.65	1.0	0.004	1500
WCM505-03	220	4.95	6.08	8.33	1.2	0.005	1500
WCM505-04	330	4.45	5.50	6.45	1.4	0.009	1500
WCM505-05	500	3.48	4.18	4.78	2.1	0.017	1500
WCM505-06	750	2.95	3.50	4.05	2.7	0.025	1500
WCM505-07	1000	2.50	2.78	3.14	3.7	0.045	1500
WCM505-08	1200	2.30	2.71	3.04	4.3	0.051	1500
WCM505-09	1800	1.90	2.19	2.50	5.3	0.073	1500

Note:

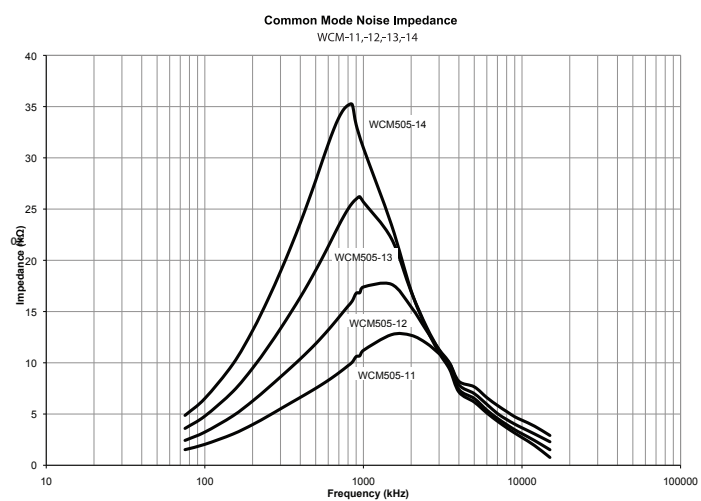
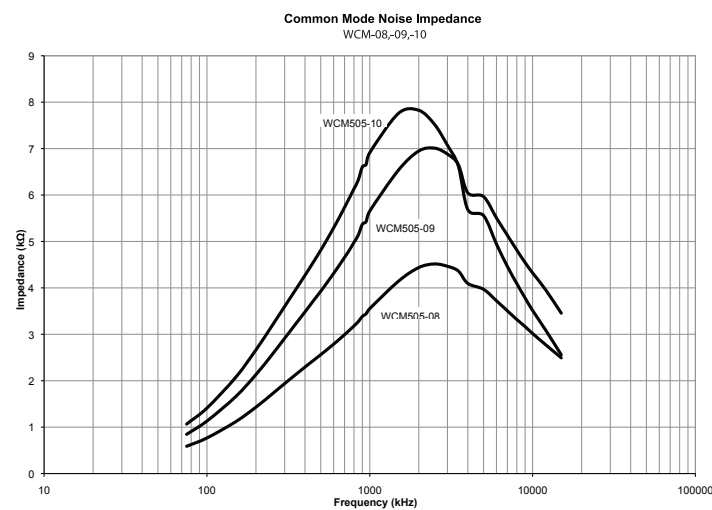
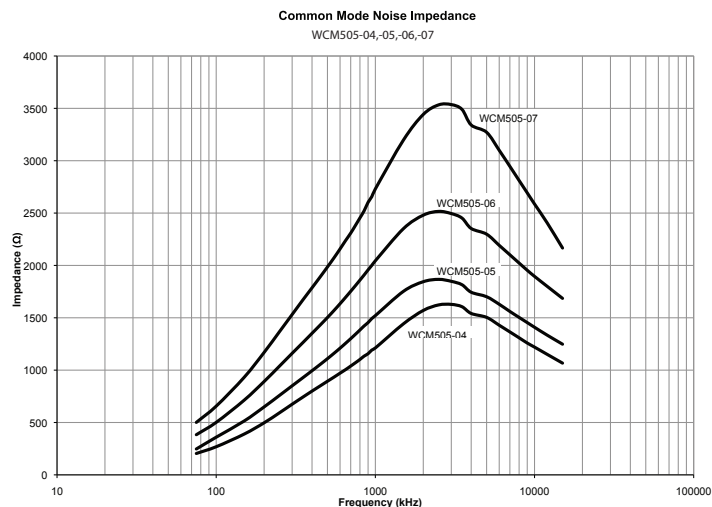
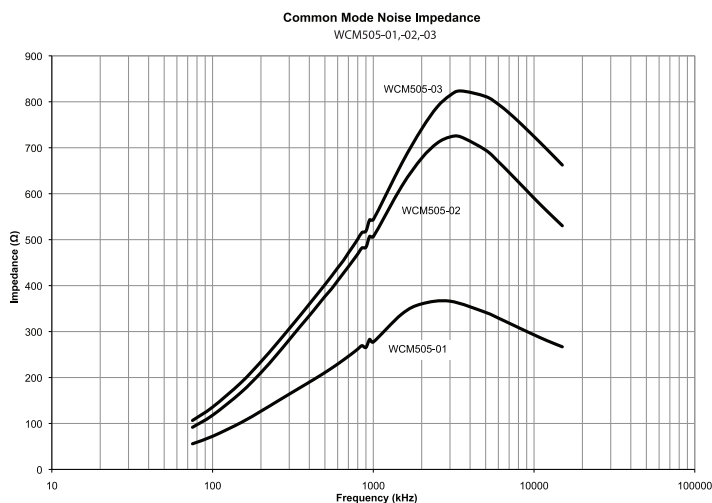
Operating temperature range is -40°C to +130°C.



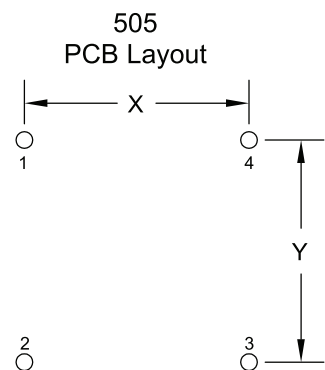
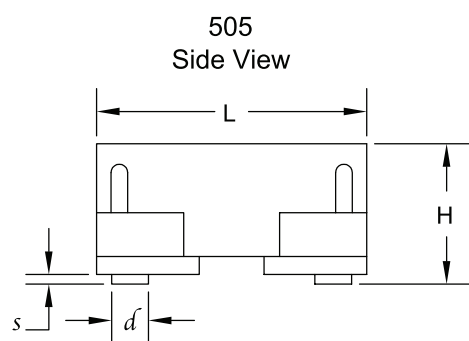
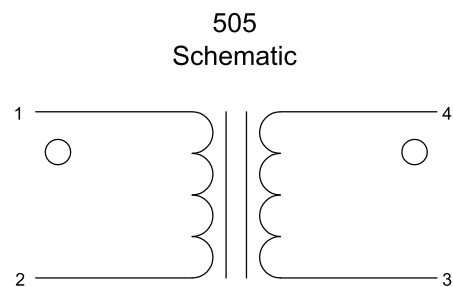
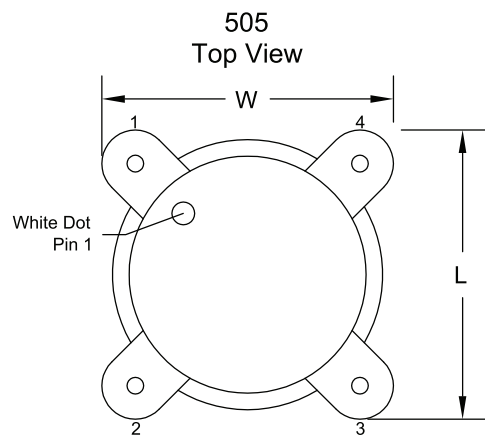
Engineering Data Continued

Product Code	Nominal Inductance (μH)	Rated RMS Current (amps) 40°C Temp Rise	Rated RMS Current (amps) 60°C Temp Rise	Rated RMS Current (amps) 80°C Temp Rise	Typical Leakage Inductance (μH)	Nominal DCR (Ω)	Hypot (Vac)
WCM505-10	2200	1.50	1.73	1.94	7.7	0.102	1500
WCM505-11	3300	1.05	1.28	1.44	11.0	0.191	1500
WCM505-12	5000	0.78	0.91	1.08	15.0	0.381	1500
WCM505-13	7500	0.53	0.63	0.72	26.0	0.723	1500
WCM505-14	10000	0.43	0.55	0.60	33.0	1.038	1500

Graphs WCM505 Series



Schematics WCM505 Series



Product Code	L	W	H	s	d	X	Y
WCM505	<u>0.530</u> 13.5	<u>0.530</u> 13.5	<u>0.290</u> 7.4	<u>0.030</u> 0.8	<u>0.060</u> 1.5	<u>0.400</u> 10.2	<u>0.400</u> 10.2

Dimensions:

Inches
mm

Note:

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