

WCM507 Series

Common Mode Chokes

Product Description

West Coast Magnetics' 507 series common mode chokes are designed to attenuate common mode line noise. These common mode chokes can handle currents up to 50 amps and are available in a horizontal mount package. They feature an interwinding isolation of 1500 Vac and 3mm clearance for safety requirements.

Features and Benefits

RMS current to 50 amps – Excellent noise attenuation – Minimum 3mm clearance between windings



Engineering Data

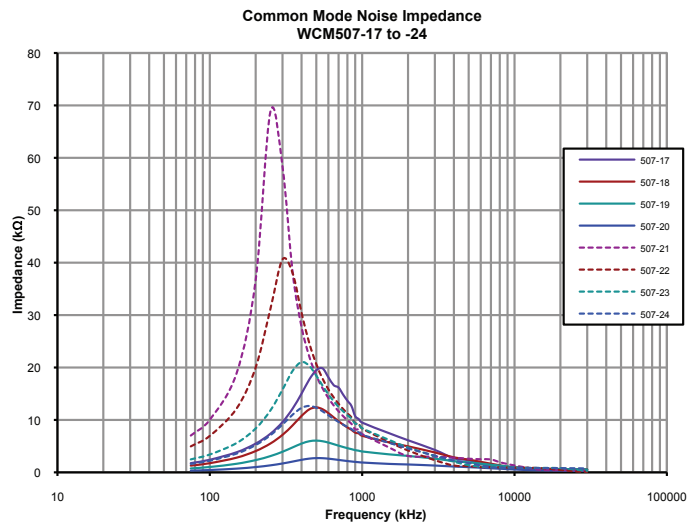
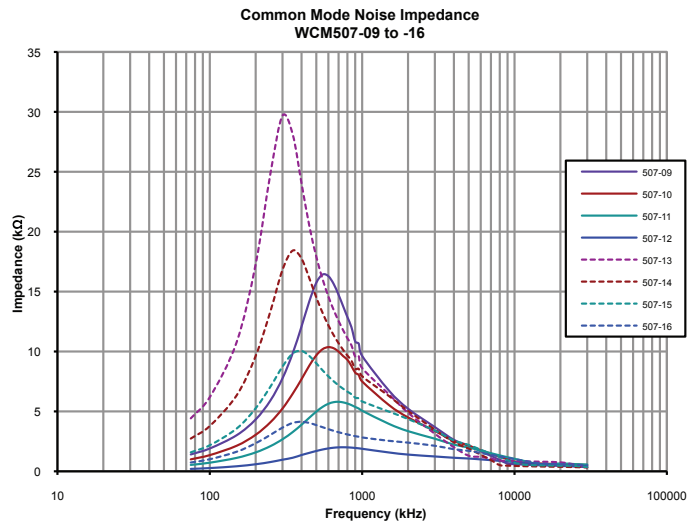
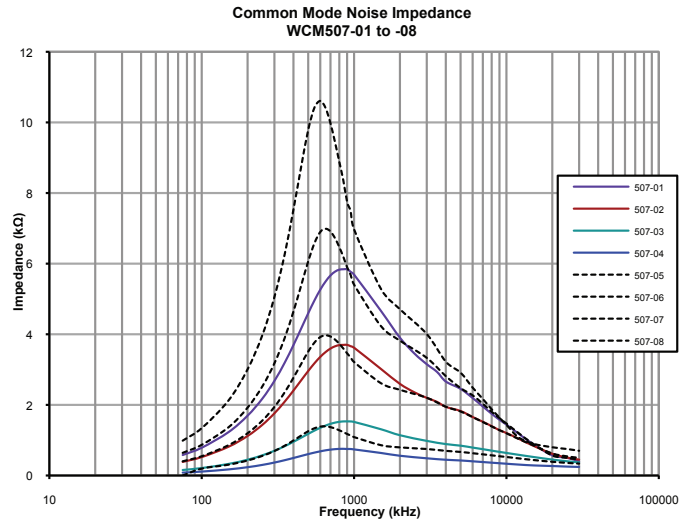
Product Code	Minimum Inductance (μH)	Rated RMS Current (amps) 40°C Temp Rise	Rated RMS Current (amps) 60°C Temp Rise	Rated RMS Current (amps) 80°C Temp Rise	Nominal Leakage Inductance (μH)	Nominal DCR (mOhm at 25°C)	Interwinding Hypot (Vac)	Clearance (mm)
WCM507-01	1056.2	16.0	17.0	19.5	13.68	6.7	1500	3
WCM507-02	652.0	23.0	24.0	28.0	8.52	3.4	1500	3
WCM507-03	264.1	33.5	34.5	37.5	3.63	1.4	1500	3
WCM507-04	134.7	38.0	41.6	44.7	2.12	0.8	1500	3
WCM507-05	1653.8	18.0	19.0	21.5	21.44	8.8	1500	3
WCM507-06	1091.7	23.5	24.5	28.0	13.37	4.6	1500	3
WCM507-07	646.0	33.0	34.0	37.0	8.37	2.3	1500	3
WCM507-08	232.6	38.0	41.6	44.7	3.15	1.1	1500	3
WCM507-09	2623.1	17.0	18.0	20.5	35.75	12.6	1500	3
WCM507-10	1719.0	22.0	23.0	27.0	21.83	11.8	1500	3
WCM507-11	1005.2	30.0	31.0	34.5	14.90	5.8	1500	3



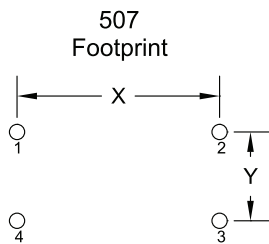
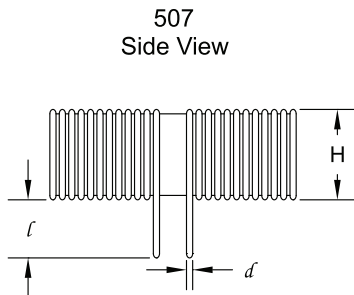
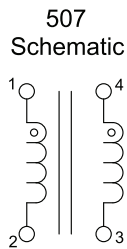
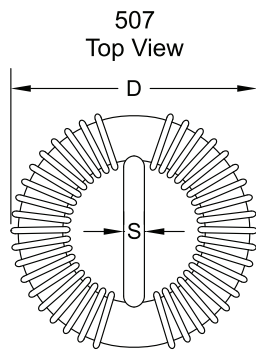
Engineering Data Continued

Product Code	Minimum 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	Nominal Leakage Inductance (μH)	Nominal DCR (mOhm at 25°C)	Interwinding Hypot (Vac)	Clearance (mm)
WCM507-12	380.7	38.0	41.6	44.7	5.34	2.9	1500	3
WCM507-13	6760.0	16.5	17.6	20.1	76.54	20.3	1500	3
WCM507-14	4410.0	22.0	23.0	27.0	47.83	10.6	1500	3
WCM507-15	2560.0	31.0	32.0	35.5	26.41	5.2	1500	3
WCM507-16	1210.0	38.0	41.6	44.7	15.39	2.9	1500	3
WCM507-17	3422.5	15.8	16.8	19.3	52.03	14.0	1500	3
WCM507-18	2190.4	21.0	22.0	26.0	36.20	7.3	1500	3
WCM507-19	1232.1	30.0	31.0	34.5	18.16	3.7	1500	3
WCM507-20	547.6	36.0	39.6	42.7	9.88	1.9	1500	3
WCM507-21	14846.6	16.0	17.0	19.5	194.00	35.0	1500	3
WCM507-22	9044.0	21.0	22.0	26.0	128.50	17.5	1500	3
WCM507-23	5087.2	30.0	31.0	34.5	76.52	8.5	1500	3
WCM507-24	3188.4	40.0	43.6	46.7	41.69	5.4	1500	3

Graphs WCM507 Series



Schematics WCM507 Series



Product Code	D	H	S	d	l	X	Y
WCM507-01	1.650 4.191	0.800 2.032	0.125 0.318	0.068 0.173	0.500 1.270	1.480 3.759	0.800 2.032
WCM507-02	1.700 4.318	0.850 2.159	0.125 0.318	0.085 0.216	0.500 1.270	1.480 3.759	0.800 2.032
WCM507-03	1.750 4.445	0.900 2.286	0.125 0.318	0.106 0.269	0.500 1.270	1.480 3.759	0.800 2.032
WCM507-04	1.850 4.699	0.950 2.413	0.125 0.318	0.133 0.338	0.500 1.270	1.480 3.759	0.800 2.032
WCM507-05	2.100 5.334	0.850 2.159	0.125 0.318	0.068 0.173	0.500 1.270	1.880 4.775	0.750 1.905
WCM507-06	2.150 5.461	0.950 2.413	0.125 0.318	0.085 0.216	0.500 1.270	1.880 4.775	0.750 1.905
WCM507-07	2.250 5.715	0.950 2.413	0.125 0.318	0.106 0.269	0.500 1.270	1.880 4.775	0.750 1.905
WCM507-08	2.300 5.842	0.100 0.254	0.125 0.318	0.133 0.338	0.500 1.270	1.880 4.775	0.750 1.905
WCM507-09	2.200 5.588	0.950 2.413	0.125 0.318	0.068 0.173	0.500 1.270	2.040 5.182	0.760 1.930
WCM507-10	2.250 5.715	1.000 2.540	0.125 0.318	0.085 0.216	0.500 1.270	2.040 5.182	0.760 1.930
WCM507-11	2.300 5.842	1.050 2.667	0.125 0.318	0.106 0.269	0.500 1.270	2.040 5.182	0.760 1.930
WCM507-12	2.400 6.096	1.100 2.794	0.125 0.318	0.133 0.338	0.500 1.270	2.040 5.182	0.760 1.930
WCM507-13	2.750 6.985	1.250 3.175	0.125 0.318	0.068 0.173	0.500 1.270	2.560 6.502	0.770 1.956
WCM507-14	2.850 7.239	1.300 3.302	0.125 0.318	0.085 0.216	0.500 1.270	2.560 6.502	0.770 1.956
WCM507-15	2.950 7.493	1.350 3.429	0.125 0.318	0.106 0.269	0.500 1.270	2.560 6.502	0.770 1.956
WCM507-16	3.000 7.620	1.450 3.683	0.125 0.318	0.133 0.338	0.500 1.270	2.560 6.502	0.770 1.956
WCM507-17	2.700 6.858	0.800 2.032	0.125 0.318	0.068 0.173	0.500 1.270	2.480 6.299	0.770 1.956
WCM507-18	2.750 6.985	0.800 2.032	0.125 0.318	0.085 0.216	0.500 1.270	2.480 6.299	0.770 1.956
WCM507-19	2.800 7.112	0.850 2.159	0.125 0.318	0.106 0.269	0.500 1.270	2.480 6.299	0.770 1.956
WCM507-20	2.850 7.239	0.950 2.413	0.125 0.318	0.133 0.338	0.500 1.270	2.480 6.299	0.770 1.956
WCM507-21	3.650 9.271	1.300 3.302	0.125 0.318	0.068 0.173	0.500 1.270	3.450 8.763	0.820 2.083
WCM507-22	3.700 9.398	1.350 3.429	0.125 0.318	0.085 0.216	0.500 1.270	3.450 8.763	0.820 2.083
WCM507-23	3.800 9.652	1.400 3.556	0.125 0.318	0.106 0.269	0.500 1.270	3.450 8.763	0.820 2.083
WCM507-24	3.850 9.779	1.450 3.683	0.125 0.318	0.133 0.338	0.500 1.270	3.450 8.763	0.820 2.083

Dimensions: Inches / mm

Note: Please specify vertical or horizontal mount with your order.