

WCM509: XX Series

common mode chokes

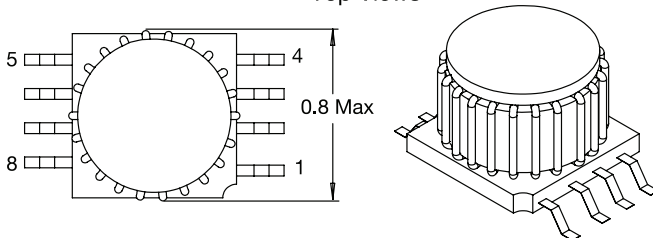
• WCM-509 Small size: #01-09

These SMD chokes are the smallest in the WCM509 series. They provide current handling capabilities up to 8.7A while providing at least 9.9mH of inductance. Chokes are compatible for pick-and-place installation.

Part Number	L@10kHz min (mH)	L@100kHz min (mH)	Leakage L max (μH)	DCR per Winding nom (mΩ)	Rated RMS Current 40°C Temperature Rise (A)	Rated RMS Current 60°C Temperature Rise (A)	Rated RMS Current 80°C Temperature Rise (A)	Hipot (VAC)
509-1	1.43	0.36	14	16	6.4	7.6	8.7	1500
509-2	1.70	0.43	17	22	5.0	6.1	6.8	1500
509-3	2.31	0.59	23	31	4.1	5.0	5.6	1500
509-4	3.02	0.77	30	44	3.4	4.0	4.4	1500
509-5	4.26	1.08	43	64	2.9	3.5	3.8	1500
509-6	5.20	1.32	52	95	2.5	3.1	3.5	1500
509-7	7.38	1.88	74	129	2.1	2.5	2.8	1500
509-8	7.98	2.03	80	165	1.7	2.1	2.5	1500
509-9	9.92	2.52	100	241	1.3	1.7	2.0	1500

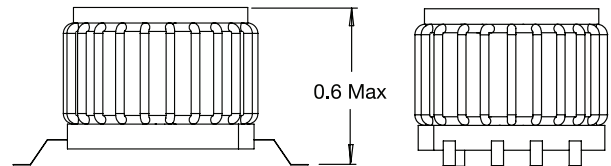
WCM509: 01-09

Top Views



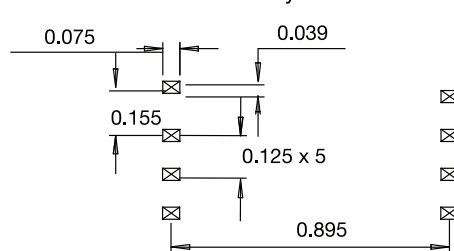
WCM509: 01-09

Side Views



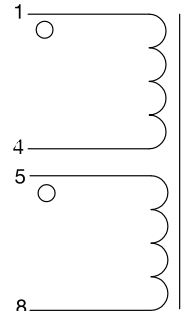
WCM509: 01-09

Pin Layout



WCM509: 01-09

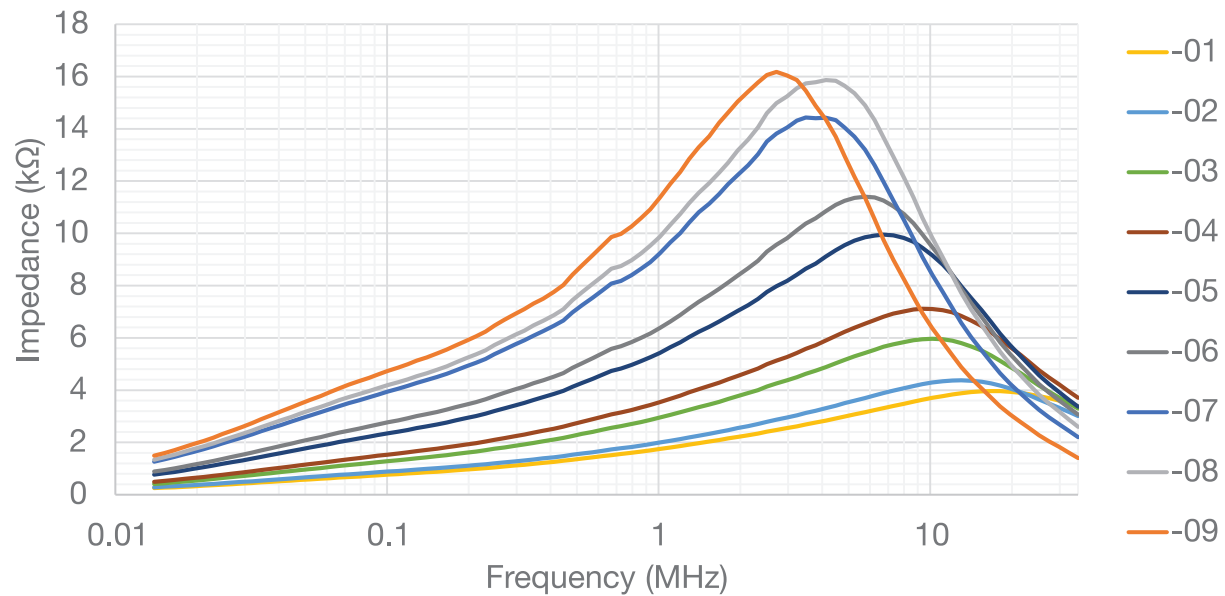
Schematic



WCM509: XX Series

common mode chokes

WCM509: Impedance Sweeps Graph
Small Chokes



WCM509: XX Series

common mode chokes

• WCM-509 Medium size: #10-18

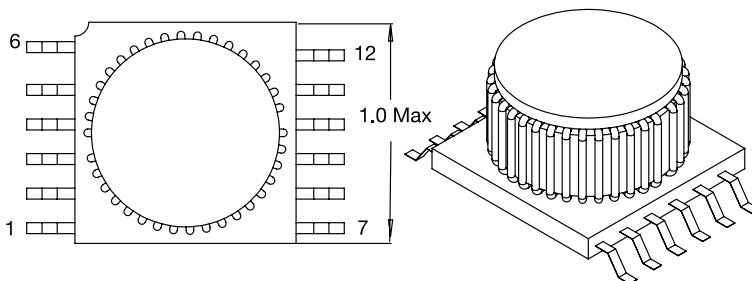
These SMD chokes provide an intermediate size option for common mode noise attenuation. They handle current up to 7.8A while providing at least 65mH of inductance. If your application has to balance high attenuation with form factor, these medium sized chokes are an excellent choice. Chokes are compatible for pick-and-place installation.

Part Number	L@10kHz min (mH)	L@100kHz min (mH)	Leakage L max (μ H)	DCR per Winding nom ($m\Omega$)	Rated RMS Current 40°C Temperature Rise (A)	Rated RMS Current 60°C Temperature Rise (A)	Rated RMS Current 80°C Temperature Rise (A)	Hipot (VAC)
509-10	9.02	2.53	90	27	6.0	7.0	7.8	1500
509-11	11.02	3.09	110	36	5.0	6.1	6.9	1500
509-12	16.90	4.73	170	54	3.9	4.8	5.4	1500
509-13	22.50	6.30	225	79	3.3	3.8	4.4	1500
509-14	28.90	8.09	289	109	2.8	3.3	3.8	1500
509-15	36.10	10.11	361	157	2.1	2.5	3.1	1500
509-16	48.40	13.55	484	216	1.8	2.2	2.6	1500
509-17	52.90	14.81	529	291	1.6	1.9	2.1	1500
509-18	65.02	18.21	650	407	1.3	1.6	1.8	1500

Dimensions: inches

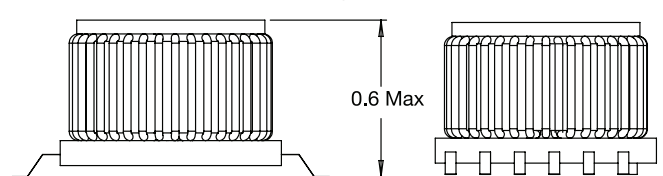
WCM509: 10-18

Top Views



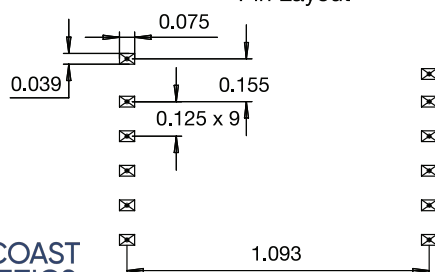
WCM509: 10-18

Side Views



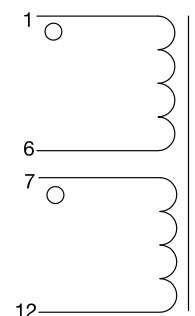
WCM509: 10-18

Pin Layout



WCM509: 10-18

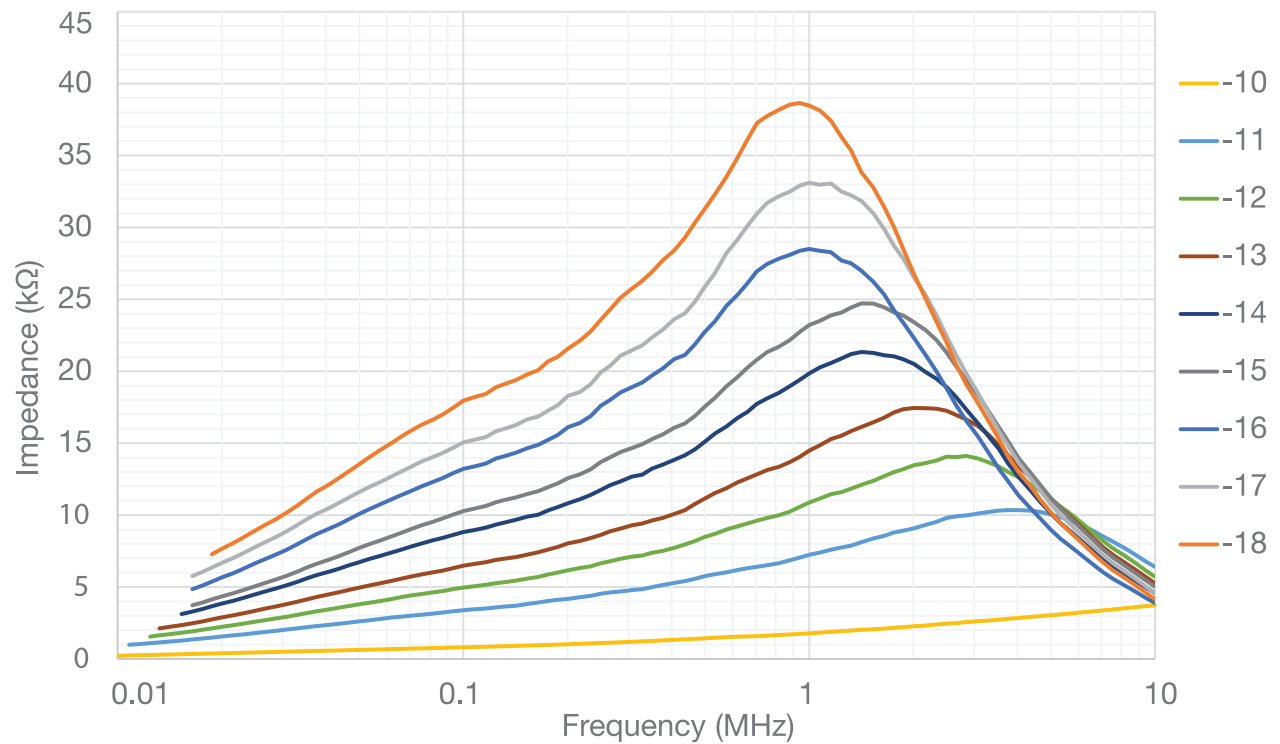
Schematic



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WCM509: Impedance Sweeps Graph
Medium Chokes



WCM509: XX Series

common mode chokes

• WCM-509 Large size: #19-27

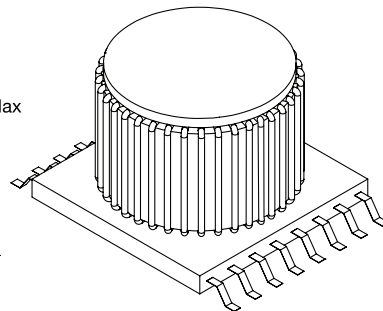
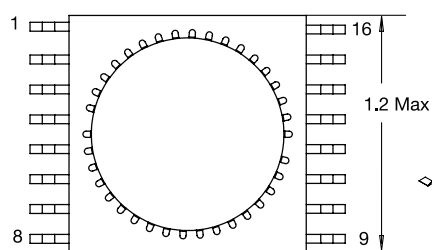
These SMD chokes are the largest in the WCM509 series. They provide current handling capabilities up to 7.9A while providing at least 116mH of inductance. Chokes are compatible for pick-and-place installation.

Part Number	L@10kHz min (mH)	L@100kHz min (mH)	Leakage L max (μH)	DCR per Winding nom (mΩ)	Rated RMS Current 40°C Temperature Rise (A)	Rated RMS Current 60°C Temperature Rise (A)	Rated RMS Current 80°C Temperature Rise (A)	Hipot (VAC)
509-19	17.82	3.24	178	38	5.8	6.9	7.9	1500
509-20	24.26	4.41	242	57	4.4	5.2	5.9	1500
509-21	31.68	5.76	317	83	3.6	4.4	5.0	1500
509-22	43.12	7.84	431	118	3.2	3.9	4.4	1500
509-23	52.86	9.61	530	162	2.7	3.1	3.5	1500
509-24	67.38	12.25	674	187	2.1	2.5	2.8	1500
509-25	75.30	13.69	753	253	1.8	2.1	2.4	1500
509-26	92.46	16.81	924	392	1.6	1.9	2.2	1500
509-27	116.38	21.16s	1164	625	1.4	1.6	1.8	1500

Dimensions: inches

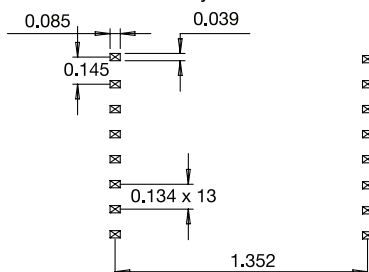
WCM509: 19-27

Top Views



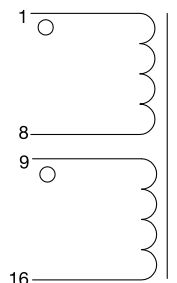
WCM509: 19-27

Pin Layout



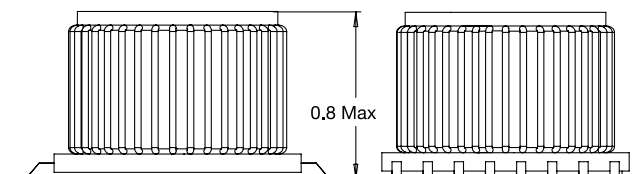
WCM509: 19-27

Schematic



WCM509: 19-27

Side Views



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WCM509: Impedance Sweeps Graph
Large Chokes

