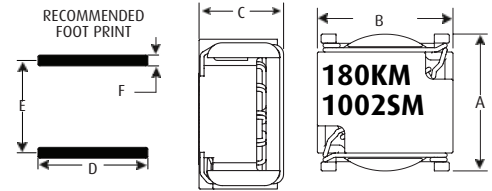


KMSM SERIES



Wirewound High Efficiency Toroidal Choke



PART NUMBER	L μ H @ 1 kHz	DCR Ω MAX	SRF MHz MIN	CURRENT RATING A DC	INC I A DC Δ L 10%	INC I A DC Δ L 20%	DIMENSIONS					
							A DIM MAX	B DIM MAX	C DIM MAX	D DIM NOM	E DIM NOM	F DIM NOM
180KM1002SM	10	0.100	35	1.60	0.43	0.86	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180KM2502SM	25	0.145	30	1.33	0.25	0.50	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180KM5002SM	50	0.205	10	1.12	0.18	0.35	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180KM7502SM	75	0.260	8	0.99	0.15	0.28	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180KM1003SM	100	0.300	6	0.92	0.13	0.25	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
030KM1002SM	10	0.050	35	2.56	0.80	1.60	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM2502SM	25	0.070	25	2.16	0.50	0.96	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM5002SM	50	0.100	10	1.81	0.35	0.68	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM7502SM	75	0.125	7	1.62	0.28	0.54	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM1003SM	100	0.145	6	1.50	0.23	0.50	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM1503SM	150	0.185	3.5	1.33	0.20	0.40	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM2003SM	200	0.300	3.0	1.04	0.17	0.34	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030KM2503SM	250	0.355	3.0	0.96	0.15	0.30	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
040KM1002SM	10	0.017	35	4.84	1.30	2.50	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM2502SM	25	0.035	20	3.38	0.70	1.30	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM5002SM	50	0.110	13	1.90	0.56	1.00	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM7502SM	75	0.140	9	1.69	0.45	0.86	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM1003SM	100	0.155	6	1.60	0.40	0.76	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM1503SM	150	0.190	3.5	1.45	0.33	0.60	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM2003SM	200	0.320	3	1.12	0.30	0.56	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040KM2503SM	250	0.360	2.5	1.05	0.25	0.48	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
050KM1002SM	10	0.010	35	7.36	1.70	3.30	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM2502SM	25	0.020	10	5.20	1.00	1.90	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM5002SM	50	0.035	7	3.93	0.70	1.30	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM7502SM	75	0.045	5	3.47	0.60	1.10	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM1003SM	100	0.055	4	3.14	0.50	0.96	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM1503SM	150	0.100	3	2.33	0.40	0.78	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM2003SM	200	0.140	2	1.97	0.35	0.65	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM2503SM	250	0.160	1.5	1.84	0.31	0.59	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050KM3303SM	330	0.190	1.0	1.69	0.27	0.50	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
121KM1002SM	10	0.010	20	8.72	5.30	9.10	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM2502SM	25	0.017	8	6.34	3.30	5.70	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM5002SM	50	0.030	4	4.77	2.30	4.00	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM7502SM	75	0.045	3	3.90	1.80	3.10	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM1003SM	100	0.065	2	3.24	1.60	2.80	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM1503SM	150	0.095	1.5	2.68	1.30	2.20	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121KM2503SM	250	0.160	1.0	2.07	0.90	1.70	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)

NOTES

- **Operating Temperature Range:** -55°C to +130°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 90°C
- **Incremental Current** is the approximate value that will cause a percentage drop in inductance as indicated in the table
- **Weight Max:** 0.70 grams (180KMSM Series), 1.8 grams (030KMSM Series), 3.5 grams (040KMSM Series), 6.0 grams (050KMSM Series), 14.5 grams (121KMSM Series)
- **Marking:** Series; XXXXSM (dash number) (see diagram above)
- Excellent Electromagnetic Shielding
- Custom designs are available to meet your specific requirements; please contact factory

PART NUMBER DERIVATION



TAPE AND REEL SPECS 180KMSM 030KMSM 040KMSM 050KMSM 121KMSM

Pieces/reel maximum:	750	430	290	170	100
Pitch between parts:	12 mm	16 mm	24 mm	32 mm	36 mm
Tape width:	24 mm	24 mm	24 mm	32 mm	44 mm
Reel diameter:	13 in.	13 in.	13 in.	13 in.	13 in.