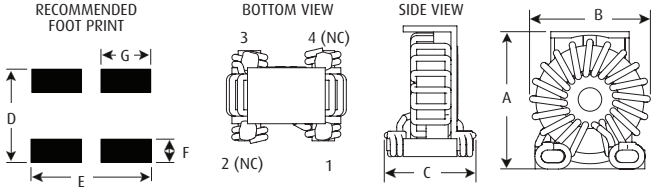
KMVSM SERIES

Pb TRADITIONAL RoHS COMPLIANT

Vertical Mount Toroidal Inductor



PART NUMBER	L µH @ 1 kHz	DCR Ω MAX	SRF MHz MIN	CURRENT RATING A DC	INC I A DC ΔL 10%	INC I A DC ΔL 20%	DIMENSIONS						
							A DIM MAX	B DIM MAX	C DIM MAX	D DIM NOM	E DIM NOM	F DIM NOM	G DIM NOM
030KM1002VSM	10	0.050	35	2.56	0.80	1.60	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM2502VSM	25	0.070	25	2.16	0.50	0.96	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM5002VSM	50	0.100	10	1.81	0.35	0.68	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM7502VSM	75	0.125	7	1.62	0.28	0.54	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM1003VSM	100	0.145	6	1.50	0.23	0.50	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM1503VSM	150	0.185	3.5	1.33	0.20	0.40	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM2003VSM	200	0.300	3	1.04	0.17	0.34	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
030KM2503VSM	250	0.355	3	0.96	0.15	0.30	0.480 (12.20)	0.440 (11.18)	0.400 (10.16)	0.415 (10.54)	0.435 (11.05)	0.100 (2.54)	0.125 (3.17)
050KM1002VSM	10	0.010	35	7.36	1.70	3.30	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM2502VSM	25	0.020	10	5.20	1.00	1.90	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM5002VSM	50	0.035	7	3.93	0.70	1.30	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM7502VSM	75	0.045	5	3.47	0.60	1.10	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM1003VSM	100	0.055	4	3.14	0.50	0.96	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM1503VSM	150	0.100	2	2.33	0.40	0.78	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM2003VSM	200	0.140	1.7	1.97	0.35	0.65	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM2503VSM	250	0.160	1.7	1.84	0.31	0.59	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
050KM3303VSM	330	0.190	1	1.69	0.27	0.50	0.740 (18.80)	0.625 (15.87)	0.550 (13.97)	0.555 (14.10)	0.645 (16.38)	0.140 (3.56)	0.260 (6.60)
121KM1002VSM	10	0.010	20	8.72	5.30	9.10	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM2502VSM	25	0.017	8	6.34	3.30	5.70	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM5002VSM	50	0.030	4	4.77	2.30	4.00	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM7502VSM	75	0.045	3	3.90	1.80	3.10	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM1003VSM	100	0.065	2	3.24	1.60	2.80	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM1503VSM	150	0.095	1.5	2.68	1.30	2.20	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)
121KM2503VSM	250	0.160	1	2.07	0.90	1.70	0.900 (22.86)	0.830 (21.08)	0.625 (15.57)	0.600 (15.24)	0.775 (19.68)	0.150 (3.81)	0.320 (8.13)

NOTES

- **Operating Temperature Range:** -55°C to +125°C
- **Current Rating** is based on a 40°C temperature rise at an ambient temperature of 85°C
- **Incremental Current** is the approximate value that will cause a percentage drop in inductance as indicated in the table
- **Weight Max:** 1.78 grams (030KMVSM Series), 5.90 grams (050KMVSM Series), 12.23 grams (121KMVSM Series)
- **Marking:** Series; XXXXVSM (dash number) (see diagram above)
- Excellent Electromagnetic Shielding
- Custom designs are available to meet your specific requirements; please contact factory

PART NUMBER DERIVATION

180KM 1002VSM LF

GEC Series

Inductance: 3 signif. digits & mult.
ex: 1002 = 10µH, 1003 = 100µH

Tolerance: All part numbers provide 10% tolerance on inductance
*Optional tolerances are available; contact factory

Termination: LF = RoHS, No Suffix = SnPB (Standard)

TAPE AND REEL SPECS

	030KMVSM	050KMVSM	121KMVSM
Pieces/reel maximum:	225	120	63
Pitch between parts:	24 mm	24 mm	32 mm
Tape width:	32 mm	32 mm	56 mm
Reel diameter:	12 in.	12 in.	12 in.

One Magnetics Parkway
Gowanda, New York 14070, USA

sales@gowanda.com P +1.716.532.2234

Made in the U.S.A.

REV: ISSUE
DATE: 12162020