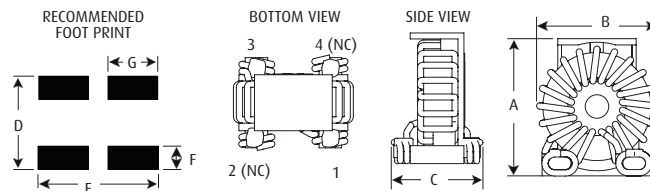


ATVSM SERIES
Vertical Mount Toroidal Inductor



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	G DIM NOM
030AT1002VSM	10	0.050	35	2.56	2.20	3.4	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)
030AT2502VSM	25	0.070	25	2.16	1.40	2.1	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)
030AT5002VSM	50	0.100	10	1.81	1.20	1.3	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)
030AT7502VSM	75	0.125	7	1.62	0.80	1.2	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)
030AT1003VSM	100	0.145	6	1.50	0.60	1.0	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)
030AT1503VSM	150	0.185	3.5	1.33	0.60	1.0	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)
030AT2003VSM	200	0.300	3	1.04	0.50	0.70	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)
030AT2503VSM	250	0.355	3	0.96	0.50	0.70	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)
050AT3901VSM†	3.9	0.006	35	9.50	8.50	12	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)
050AT8201VSM†	8.2	0.008	35	8.20	6.00	8.7	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)
050AT1002VSM	10	0.010	35	7.36	6.00	8.7	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)
050AT1502VSM	15	0.012	30	6.70	4.00	6.2	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)
050AT2502VSM	25	0.020	10	5.20	3.60	5.3	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)
050AT5002VSM	50	0.035	7	3.93	2.00	3.1	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)
050AT7502VSM	75	0.045	5	3.47	1.60	2.5	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)
050AT1003VSM	100	0.055	4	3.14	1.50	2.2	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)
050AT1503VSM	150	0.100	2	2.33	1.20	1.8	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)
050AT2003VSM	200	0.140	1.7	1.97	1.00	1.6	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)
050AT2503VSM	250	0.160	1.5	1.84	0.90	1.4	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)
050AT3303VSM	330	0.190	1	1.69	0.80	1.2	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)
121AT1002VSM	10	0.010	20	8.72	9.00	14	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)
121AT2502VSM	25	0.017	8	6.34	7.00	10.5	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)
121AT5002VSM	50	0.030	4	4.77	3.90	6.0	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)
121AT7502VSM	75	0.045	3	3.90	3.90	5.8	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)
121AT1003VSM	100	0.065	2	3.24	3.40	4.7	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)
121AT1503VSM	150	0.095	1.5	2.68	3.30	4.8	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)
121AT2503VSM	250	0.160	1	2.07	2.20	3.2	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:** 1.8 grams (030ATVSM Series), 6.0 grams (050ATVSM Series), 14.5 grams (121ATVSM 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

GEC Series **180AT10025M LF**

Inductance: 3 signif. digits & mult. —
ex: 3901 = 3.9 μ H, 1002 = 10 μ H, 1003 = 100 μ H

Tolerance: † = $\pm$ 15%, All part numbers provide $\pm$ 10% tolerance on inductance
*Optional tolerances are available; contact factory

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

TAPE AND REEL SPECS 030ATVSM 050ATVSM 121ATVSM

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.