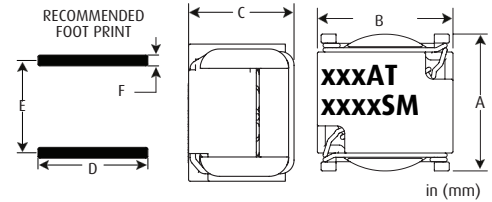


**ATSM SERIES**



Wirewound Toroidal Inductor



PART NUMBER	L $\mu$ H @ 1 kHz	DCR $\Omega$ MAX	SRF MHz MIN	CURRENT RATING A DC	INC I A DC $\Delta$ L 10%	INC I A DC $\Delta$ L 20%	DIMENSIONS					
							A DIM MAX	B DIM MAX	C DIM MAX	D DIM NOM	E DIM NOM	F DIM NOM
180AT1002SM	10	0.100	35	1.60	0.90	1.40	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180AT2502SM	25	0.145	30	1.33	0.60	0.90	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180AT5002SM	50	0.205	10	1.12	0.40	0.60	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
180AT7502SM	75	0.260	8	0.99	0.30	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)
180AT1003SM	100	0.300	6	0.92	0.30	0.40	0.340 (8.64)	0.340 (8.64)	0.270 (6.86)	0.300 (7.62)	0.270 (6.86)	0.060 (1.52)
030AT1002SM	10	0.050	35	2.56	2.20	3.40	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT2502SM	25	0.070	25	2.16	1.40	2.10	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT5002SM	50	0.100	10	1.81	1.20	1.30	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT7502SM	75	0.125	7.0	1.62	0.80	1.20	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT1003SM	100	0.145	6.0	1.50	0.60	1.00	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT1503SM	150	0.185	3.5	1.33	0.60	1.00	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT2003SM	200	0.300	3.0	1.04	0.50	0.70	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
030AT2503SM	250	0.355	3.0	0.96	0.50	0.70	0.440 (11.18)	0.435 (11.05)	0.360 (9.14)	0.400 (10.16)	0.360 (9.14)	0.060 (1.52)
040AT1002SM	10	0.017	35	4.84	3.80	5.70	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT2502SM	25	0.035	20	3.38	2.20	3.50	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT5002SM	50	0.110	13	1.90	1.70	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)
040AT7502SM	75	0.140	9.0	1.69	1.30	2.00	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT1003SM	100	0.155	6.0	1.60	1.10	1.70	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT1503SM	150	0.190	3.5	1.45	0.90	1.40	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT2003SM	200	0.320	3.0	1.12	0.70	1.10	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
040AT2503SM	250	0.360	2.5	1.05	0.70	1.10	0.565 (14.35)	0.560 (14.22)	0.360 (9.14)	0.520 (13.21)	0.460 (11.68)	0.060 (1.52)
050AT1002SM	10	0.010	35	7.36	6.00	8.70	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT2502SM	25	0.020	10	5.20	3.60	5.30	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT5002SM	50	0.035	7.0	3.93	2.00	3.10	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT7502SM	75	0.045	5.0	3.47	1.60	2.50	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT1003SM	100	0.055	4.0	3.14	1.50	2.20	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT1503SM	150	0.100	3.0	2.33	1.20	1.80	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT2003SM	200	0.140	2.0	1.97	1.00	1.60	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT2503SM	250	0.160	1.5	1.84	0.90	1.40	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
050AT3303SM	330	0.190	1.0	1.69	0.80	1.20	0.700 (17.78)	0.670 (17.02)	0.405 (10.28)	0.620 (15.75)	0.590 (14.99)	0.060 (1.52)
121AT1002SM	10	0.010	20	8.27	9.00	14	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT2502SM	25	0.017	8.0	6.34	7.00	10.50	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT5002SM	50	0.030	4.0	4.77	3.90	6.00	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT7502SM	75	0.045	3.0	3.90	3.90	5.80	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT1003SM	100	0.065	2.0	3.24	3.40	5.20	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT1503SM	150	0.095	1.5	2.68	3.30	4.80	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)
121AT2503SM	250	0.160	1.0	2.07	2.20	3.20	0.940 (23.88)	0.940 (23.88)	0.510 (12.95)	0.700 (17.78)	0.820 (20.83)	0.080 (2.03)

**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 (180ATSM Series), 1.8 grams (030ATSM Series), 3.5 grams (040ATSM Series), 6.0 grams (050ATSM Series), 14.5 grams (121ATSM 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** 180ATSM 030ATSM 040ATSM 050ATSM 121ATSM

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.