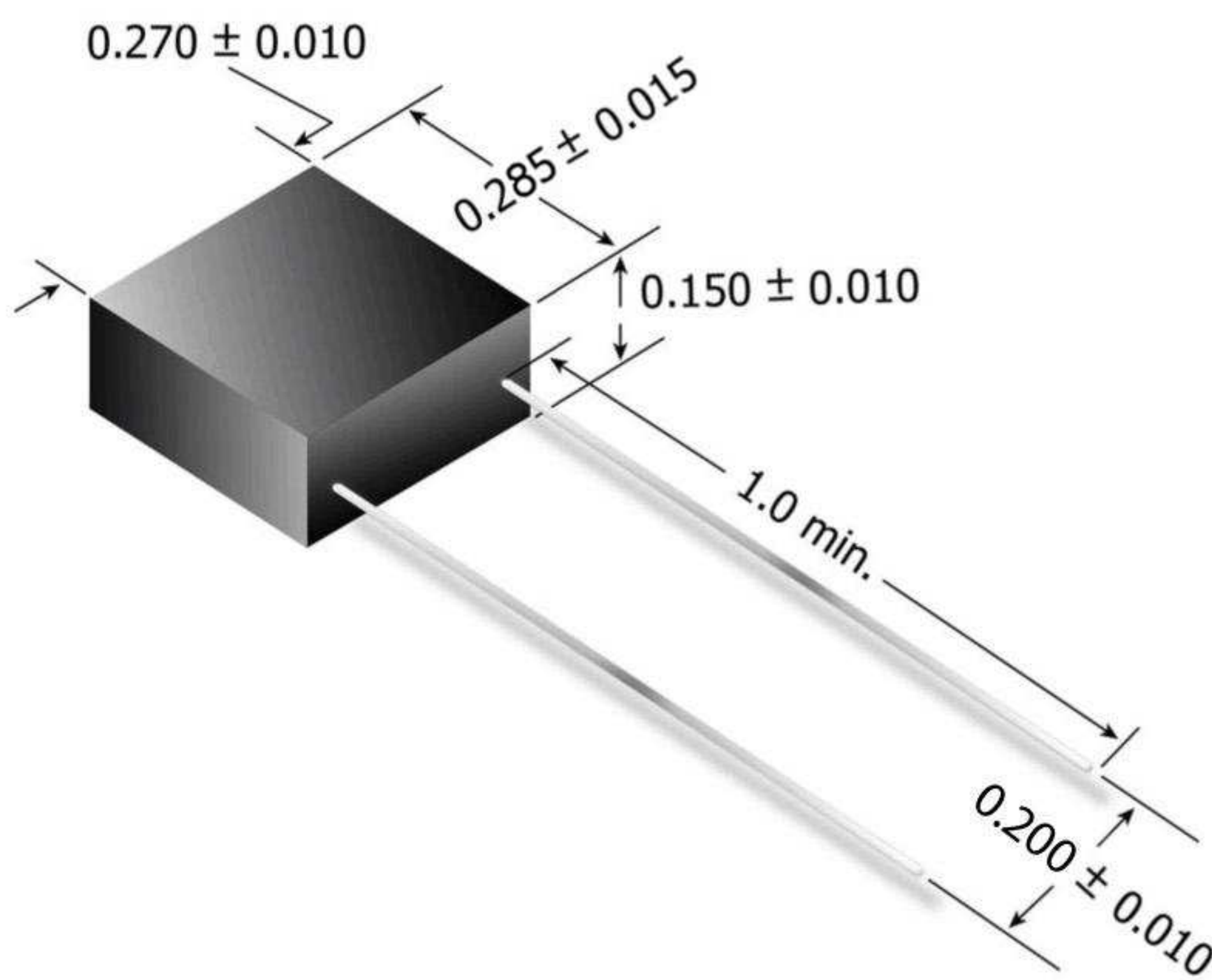


S24000 Series

Molded Subminiature RF Inductors

MS21424



GENERAL SPECIFICATIONS

For application in printed circuits and modules.

- Moisture and shock resistant, immersion proof.
- Designed to meet MIL-C-15305, Grade 1, Class B, toroids will operate at any temperature from -55° to + 125°C.
- The low external magnetic field of the toroid permits tighter packaging of units than with other inductive devices.
- Maximum operating temperature: 125°C
- Rated temperature rise (at 90°C): 35°C
- Dielectric with standing voltage: 700v rms
- Terminal pull: 5 pounds
- Altitude rating: 70,000 feet
- Overload current: 1.4 times the rated current

SPECIFICATIONS

- Frequency range: 1 to 50 MHZ
- Inductance tolerances: 0.10 to 0.82 uH, ±10%; 1.0 to 10 uH, ± 10%; (closer tolerances on request.
- Maximum dissipation: 1/5-watt.
- Inductance TC: + 20 ppm/°C nominal; +50 ppm/°C max.
- Leads: tin-lead coated copper wire.

MIL Dash no.	Type designation	C/ACM P/N	Inductance ±5% (μH)	Test frequency MHz	Q (min)	Self resonant frequency (min) MHz	DC Resistance (max) ohms	Rated dc current (max) mA
01	LT4K546	S24001	10	2.5	75	35	1.1	550
02	LT4K547	S24002	12	2.5	75	31	1.3	500
03	LT4K548	S24003	15	2.5	75	27	1.5	450
04	LT4K549	S24004	18	2.5	80	24	1.9	410
05	LT4K550	S24005	22	2.5	80	22	2.3	380
06	LT4K551	S24006	27	2.5	80	20	2.7	350
07	LT4K552	S24007	33	2.5	80	18	3.3	320
08	LT4K553	S24008	39	2.5	80	16	3.9	290
09	LT4K554	S24009	47	2.5	80	14	4.7	260
10	LT4K555	S24010	56	2.5	80	12	5.6	240
11	LT4K556	S24011	68	2.5	80	11	6.8	220
12	LT4K557	S24012	82	2.5	80	10	8.1	200
13	LT4K558	S24013	100	2.5	80	9.1	9.7	180
14	LT4K559	S24014	120	.79	45	8.2	12	160
15	LT4K560	S24015	150	.79	45	7.3	14	150
16	LT4K561	S24016	180	.79	45	6.4	17	140
17	LT4K562	S24017	220	.79	50	5.6	20	130
18	LT4K563	S24018	270	.79	55	5.0	24	120
19	LT4K564	S24019	330	.79	55	4.4	19	130
20	LT4K565	S24020	390	.79	55	3.9	22	120
21	LT4K566	S24021	470	.79	55	3.5	27	110
22	LT4K567	S24022	560	.79	55	3.1	32	100
23	LT4K568	S24023	680	.79	55	2.8	19	130
24	LT4K569	S24024	820	.79	50	2.5	23	120
25	LT4K570	S24025	1000	.79	50	2.2	27	110

