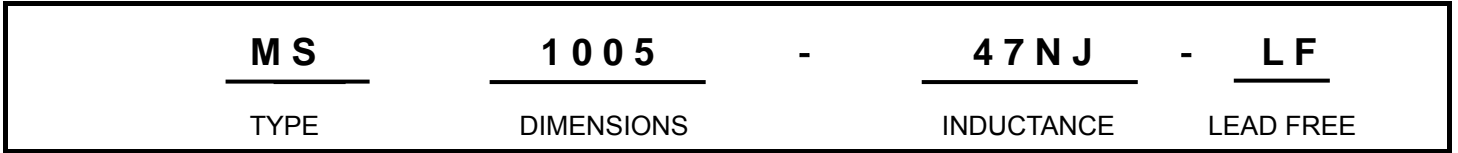




MS1005 (0402) SERIES

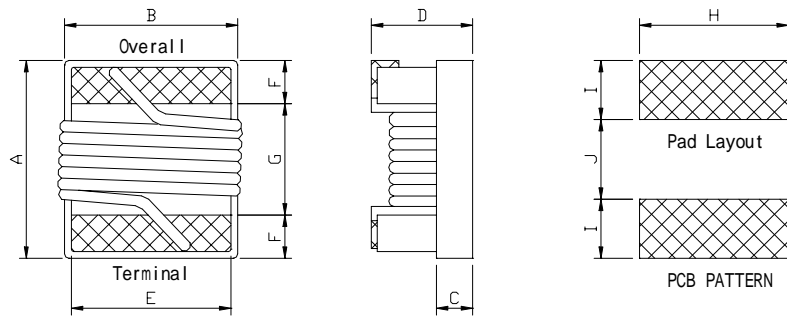


PART NUMBERING SYSTEM



SHAPES AND DIMENSIONS

UNIT : mm

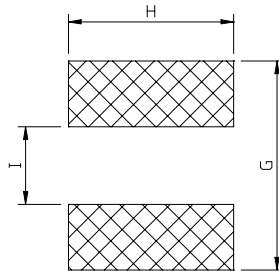


A=1.19 max. B=0.64 max. C=0.30 max. D=0.66 max. E=0.51±0.1 F=0.23±0.1 G=0.56±0.07

RECOMMENDED PATTERNS

UNIT : mm

G=1.18 H=0.66 I=0.46



Features:

- 1> Miniature SMD power chip Inductors.
- 2> Economical alternative to large power inductors.
- 3> Ideal for use at switching frequencies from 1MHz.to 2.52MHz .
- 4> Magnetically shielded against radiation.

Applications:

Notebook computers, PC cards, wireless communication and handheld devices.



MS1005 (0402) SERIES



SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR () (max)	IDC (mA) (max)
MS1005-1N0 -LF	1.0@250MHz	K,J	16@900MHz	6000	0.045	1360
MS1005-1N9 -LF	1.9@250MHz	K,J	16@900MHz	6000	0.070	1040
MS1005-2N0 -LF	2.0@250MHz	K,J	16@900MHz	6000	0.070	1040
MS1005-2N2 -LF	2.2@250MHz	K,J	19@900MHz	6000	0.070	960
MS1005-2N4 -LF	2.4@250MHz	K,J	19@900MHz	6000	0.068	790
MS1005-2N7 -LF	2.7@250MHz	K,J	19@900MHz	6000	0.120	640
MS1005-3N3 -LF	3.3@250MHz	K,J	19@900MHz	6000	0.066	840
MS1005-3N6 -LF	3.6@250MHz	K,J	19@900MHz	6000	0.066	840
MS1005-3N9 -LF	3.9@250MHz	K,J	19@900MHz	5800	0.066	840
MS1005-4N3 -LF	4.3@250MHz	K,J	19@900MHz	6000	0.091	700
MS1005-4N7 -LF	4.7@250MHz	K,J	19@900MHz	4770	0.130	640
MS1005-5N1 -LF	5.1@250MHz	K,J	20@900MHz	5800	0.083	800
MS1005-5N6 -LF	5.6@250MHz	K,J	20@900MHz	5800	0.083	760
MS1005-6N2 -LF	6.2@250MHz	K,J	20@900MHz	5800	0.083	760
MS1005-6N8 -LF	6.8@250MHz	K,J	20@900MHz	4800	0.083	680
MS1005-7N5 -LF	7.5@250MHz	K,J	22@900MHz	5800	0.100	680
MS1005-8N2 -LF	8.2@250MHz	K,J	22@900MHz	4400	0.100	680
MS1005-8N7 -LF	8.7@250MHz	K,J	22@900MHz	4100	0.200	480
MS1005-9N0 -LF	9.0@250MHz	K,J	22@900MHz	4160	0.100	680
MS1005-9N5 -LF	9.5@250MHz	K,J	22@900MHz	4000	0.200	480
MS1005-10N -LF	10@250MHz	K,J	21@900MHz	3900	0.20	480
MS1005-11N -LF	11@250MHz	K,J	24@900MHz	3680	0.12	640

- Inductance tolerance :J=±5% ; K=±10%.
- Inductance are tested by HP4284A with SMD test fixture at 1250MHz, 0.1Vrms.
- Q value are tested by HP4287A with 16193 SMD test fixture at 900MHz, 0.1 Vrms.
- DCR measured on HP4338 micro-ohmmete.
- Isat : Inductance is 10% lower than it's nominal value in DC saturation characteristics.
- Irms : temperature raise becomes $\Delta T = 40^{\circ} C$.
- Operating temperature range $-40^{\circ} C$ to $+125^{\circ} C$. (Electrical specifications at $25^{\circ} C$.)



MS1005 (0402) SERIES



SPECIFICATION TABLE

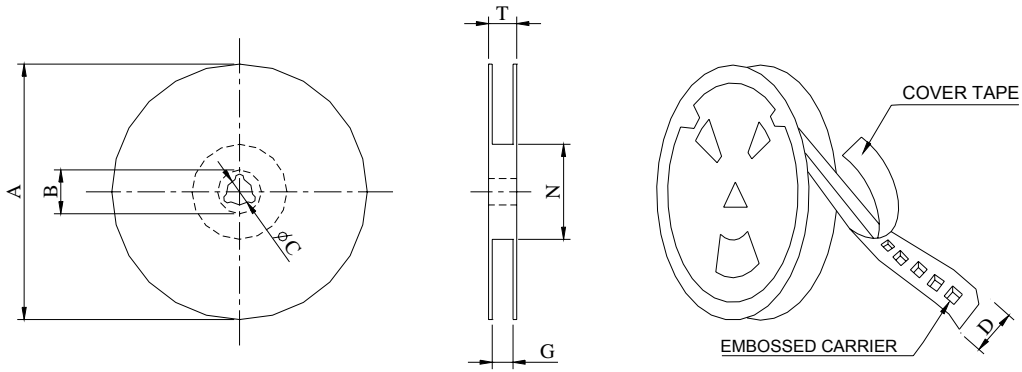
PART NUMBER	INDUCTANCE (nH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR () (max)	IDC (mA) (max)
MS1005-12N -LF	12@250MHz	K,J	24@900MHz	3600	0.12	640
MS1005-13N -LF	13@250MHz	K,J	24@900MHz	3450	0.21	440
MS1005-15N -LF	15@250MHz	K,J	24@900MHz	3280	0.17	560
MS1005-16N -LF	16@250MHz	K,J	24@900MHz	3100	0.22	560
MS1005-18N -LF	18@250MHz	K,J	24@900MHz	3040	0.23	420
MS1005-19N -LF	19@250MHz	K,J	24@900MHz	3040	0.20	480
MS1005-20N -LF	20@250MHz	K,J	24@900MHz	3000	0.25	420
MS1005-22N -LF	22@250MHz	K,J	24@900MHz	2800	0.30	400
MS1005-23N -LF	23@250MHz	K,J	24@900MHz	2720	0.30	400
MS1005-24N -LF	24@250MHz	K,J	24@900MHz	2700	0.30	400
MS1005-27N -LF	27@250MHz	K,J	24@900MHz	2480	0.30	400
MS1005-30N -LF	30@250MHz	K,J	24@900MHz	2350	0.30	400
MS1005-33N -LF	33@250MHz	K,J	24@900MHz	2350	0.30	400
MS1005-36N -LF	36@250MHz	K,J	24@900MHz	2320	0.44	320
MS1005-39N -LF	36@250MHz	K,J	24@900MHz	2100	0.55	200
MS1005-40N -LF	40@250MHz	K,J	20@900MHz	2240	0.44	320
MS1005-43N -LF	43@250MHz	K,J	20@900MHz	2030	0.81	100
MS1005-47N -LF	47@250MHz	K,J	20@900MHz	2100	0.83	150
MS1005-51N -LF	51@250MHz	K,J	19@900MHz	1750	0.82	100
MS1005-56N -LF	56@250MHz	K,J	18@900MHz	1760	0.97	100
MS1005-68N -LF	68@250MHz	K,J	18@900MHz	1620	1.12	100

- Inductance tolerance :J=±5% ; K=±10%.
- Inductance are tested by HP4284A with SMD test fixture at 1250MHz, 0.1Vrms.
- Q value are tested by HP4287A with 16193 SMD test fixture at 900MHz, 0.1 Vrms.
- DCR measured on HP4338 micro-ohmmete.
- Isat : Inductance is 10% lower than it's nominal value in DC saturation characteristics.
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- Operating temperature range $-40^{\circ} C$ to $+125^{\circ} C$. (Electrical specifications at $25^{\circ} C$.)

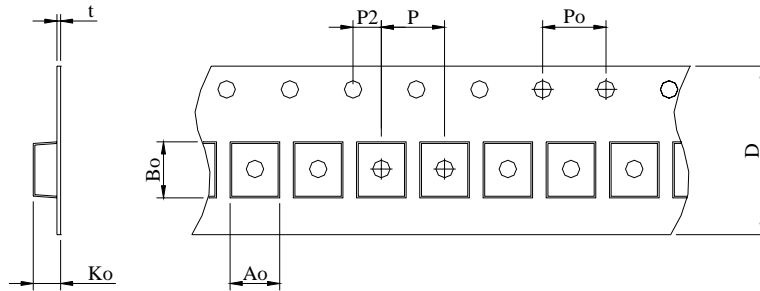
MS1005 (0402) SERIES



PACKAGE SPECIFICATION



*CARRIER TAPE WIDTH : D



	DIMENSIONS (m/m)														
	Q'TY (PCS)	A	B	C	D	G	N	T	Ao	Bo	Ko	t	P	Po	P2
7"	10,000	178	—	13	8	8.4	60	14.4	—	—	—	0.6	2	4	2