



## MF1005 SERIES – Multilayer Ceramic Chip Inductors



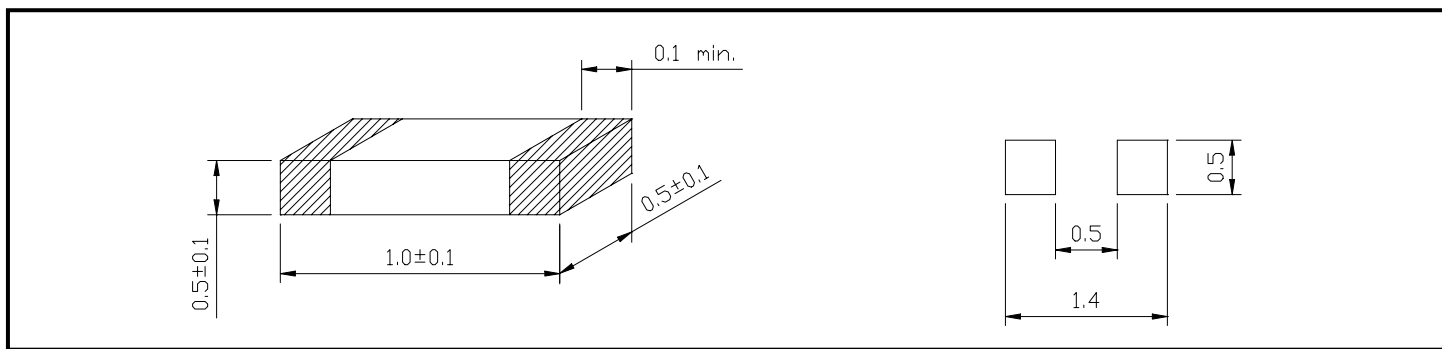
RoHS Compliant

### PART NUMBERING SYSTEM

<b>MF</b>	<b>1005</b>	—	<b>1N0S</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

### SHAPES AND DIMENSIONS

UNIT : mm



### FEATURES

1. Provides high Q characteristics .
2. Supports operating frequency bands of up to 10GHZ .
3. Excellent solderability and high heat resistance for either flow or reflow soldering .

### APPLICATION

1. Mobile phones .
2. Portable phones .
3. Cordless phones .
4. Pagers and personal handy-phone systems ( PHS ) .



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### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH) 100MHz	INDUCTANCE TOLERANCE	Q TYPICAL		SRF (MHz) MIN.	DCR (Ω) (max)	IDC (mA) (max)
			100 MHz	800 MHz			
MF1005-1N0S-LF	1.0	S	8	28	4000	0.12	300
MF1005-1N2S-LF	1.2	S	8	28	4000	0.12	300
MF1005-1N5S-LF	1.5	S	8	30	4000	0.13	300
MF1005-1N8S-LF	1.8	S	8	28	4000	0.14	300
MF1005-2N2S-LF	2.2	S	8	30	4000	0.16	300
MF1005-2N7S-LF	2.7	S	8	30	4000	0.17	300
MF1005-3N3□-LF	3.3	S, K	8	30	4000	0.19	300
MF1005-3N9□-LF	3.9	S, K	8	31	4000	0.22	300
MF1005-4N7□-LF	4.7	S, K	8	30	4000	0.24	300
MF1005-5N6□-LF	5.6	S, K	8	31	4000	0.27	300
MF1005-6N8□-LF	6.8	J, K	8	31	3900	0.32	250
MF1005-8N2□-LF	8.2	J, K	8	34	3600	0.37	250
MF1005-10N□-LF	10.0	J, K	8	32	3200	0.42	250
MF1005-12N□-LF	12.0	J, K	8	31	2700	0.50	250
MF1005-15N□-LF	15.0	J, K	8	30	2300	0.55	250
MF1005-18N□-LF	18.0	J, K	8	29	2100	0.65	200
MF1005-22N□-LF	22.0	J, K	8	28	1900	0.80	200
MF1005-27N□-LF	27.0	J, K	8	27	1600	0.90	200
MF1005-33N□-LF	33.0	J, K	8	25	1300	1.00	200
MF1005-39N□-LF	39.0	J, K	8	25	1200	1.20	150
MF1005-47N□-LF	47.0	J, K	8	23	1000	1.30	150
MF1005-56N□-LF	56.0	J, K	8	21	750	1.40	150
MF1005-68N□-LF	68.0	J, K	8	19	750	1.40	150
MF1005-82N□-LF	82.0	J, K	8	16	600	1.60	100
MF1005-R10□-LF	100.0	J, K	8	10	600	1.60	100
MF1005-R12□-LF	120.0	J, K	8	8	600	1.60	100

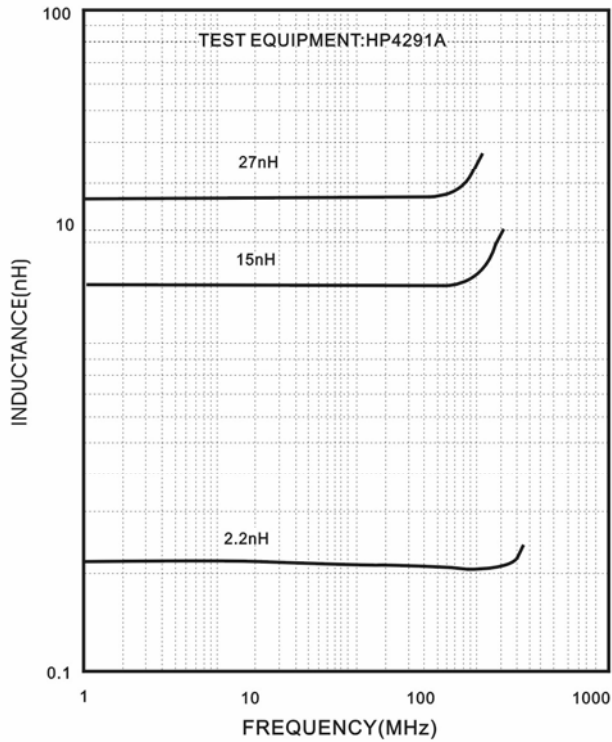
□ : INDUCTANCE TOLERANCE (J : ±5%, K : ±10%, S : ±0.3nH)



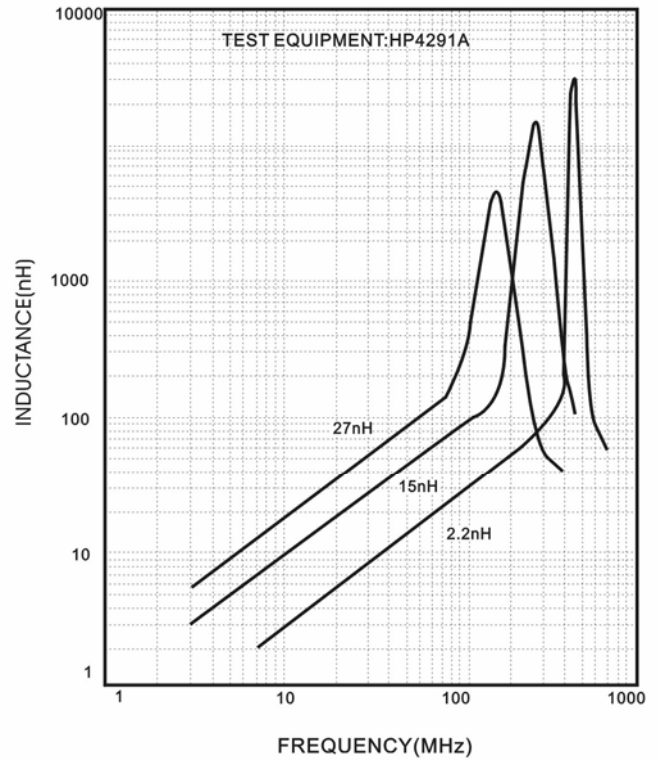
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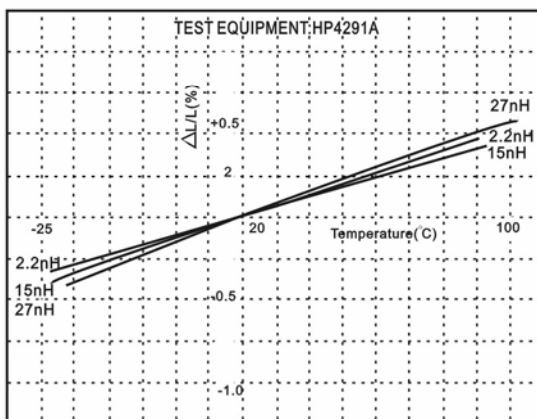
INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



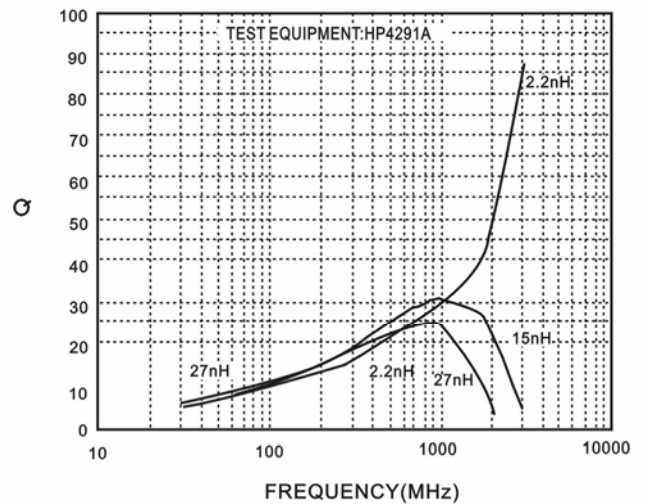
INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



INDUCANCE vs. FREQUENCY  
CHARACTERSTICS



Q vs. FREQUENCY CHARACTERISTICS

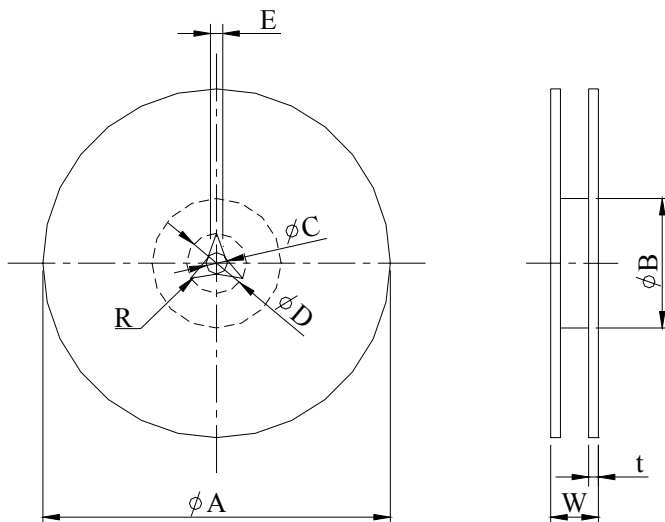




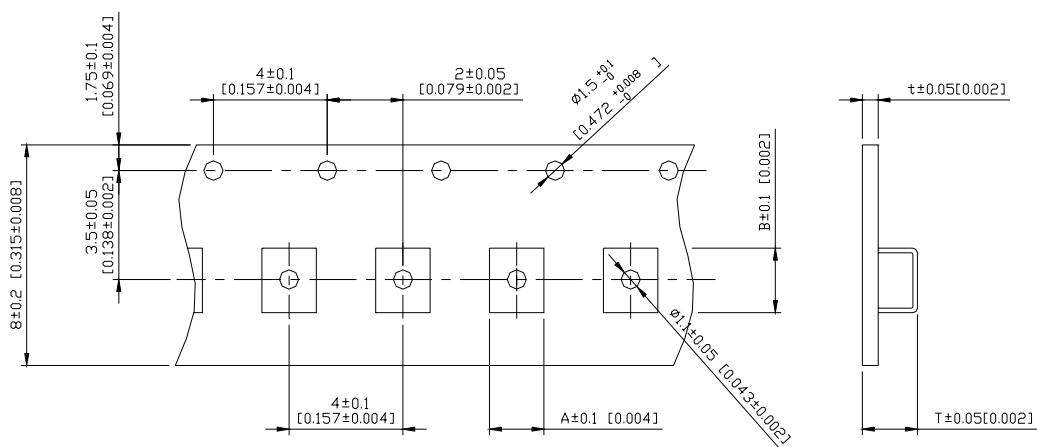
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## PACKAGING SPECIFICATION



	A	B	C	D	E	W8	W12	t	R
T( $\phi 178\text{mm}$ ) Reel	$\phi 178\pm 2$	$\phi 60\pm 1$	$\phi 13\pm 0.8$	$\phi 21\pm 0.8$	2	$10\pm 1.5$	$14.5\pm 1.5$	$1.27\pm 0.2$	1
T( $\phi 330\text{mm}$ ) Reel	$\phi 330\pm 2$	$\phi 100\pm 2$	$\phi 13\pm 0.8$	$\phi 21\pm 0.8$	2	$10\pm 1.5$	$14.5\pm 1.5$	$1.27\pm 0.2$	1



TYPE	A	B	T	t	T( $\phi 178\text{mm}$ )	T( $\phi 330\text{mm}$ )
MF1005	0.65	1.15	0.80	0.2	10000 pcs/reel	—