



# MS2012LC SERIES ~ Wire Wound Ferrite Chip Inductor



## PART NUMBERING SYSTEM

<b>MS</b>	<b>2012LC</b>	—	<b>R 4 7</b>	—	<b>LF</b>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

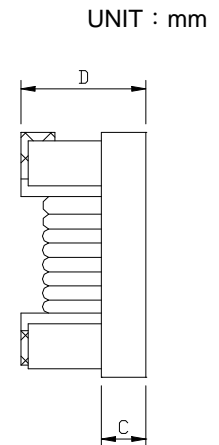
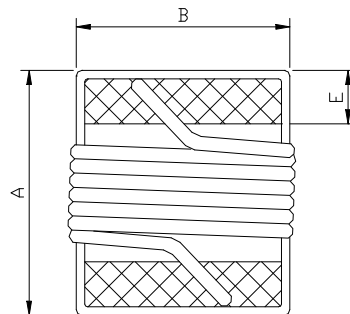
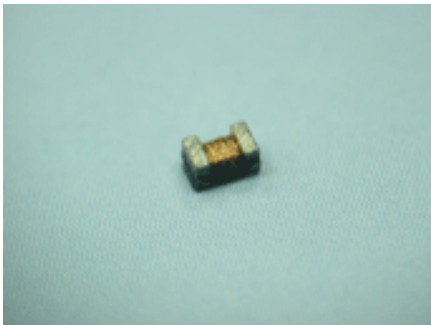
### FEATURES :

1. Low profile 1.40mm max. ( 1.30mm typ. )
2. MS2012LC products conforms to the standards that are slated to be introduced under the RoHS Directive.
3. Applications for Audio-visual equipment , cable modems , ADSL , mobile base stations .

### ENVIRONMENTAL DATA :

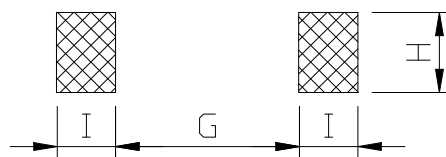
1. Operating temperature range : - 40°C to + 85°C including self-temperature rise
2. Storage temperature range : - 40°C to + 85°C

### SHAPES AND DIMENSIONS



A=2.4 Max. B=1.65 Max. C=0.65 Ref. D=1.3 Max. E=0.44±0.1

### RECOMMENDED PATTERNS



G=0.76 H=1.78 I=1.02



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RoHS Compliant

### SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (uH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR ( $\Omega$ ) (Typ.)	IDC (mA) (max)
MS2012LC-1R0□-LF	1.0@7.9MHz	J, K, M	14@7.9MHz	208	0.13	1100
MS2012LC-1R5□-LF	1.5@7.9MHz	J, K, M	14@7.9MHz	159	0.17	920
MS2012LC-1R8□-LF	1.8@7.9MHz	J, K, M	14@7.9MHz	112	0.20	860
MS2012LC-2R2□-LF	2.2@7.9MHz	J, K, M	13@7.9MHz	87	0.22	740
MS2012LC-2R7□-LF	2.7@7.9MHz	J, K, M	13@7.9MHz	72	0.25	680
MS2012LC-3R3□-LF	3.3@7.9MHz	J, K, M	12@7.9MHz	70	0.28	620
MS2012LC-3R9□-LF	3.9@7.9MHz	J, K, M	14@7.9MHz	61	0.38	580
MS2012LC-4R7□-LF	4.7@7.9MHz	J, K, M	14@7.9MHz	51	0.42	520
MS2012LC-5R6□-LF	5.6@7.9MHz	J, K, M	12@7.9MHz	47	0.50	480
MS2012LC-6R8□-LF	6.8@7.9MHz	J, K, M	14@7.9MHz	46	0.68	420
MS2012LC-8R2□-LF	8.2@7.9MHz	J, K, M	13@7.9MHz	33	0.73	400
MS2012LC-100□-LF	10@2.5MHz	J, K, M	14@2.5MHz	31	0.85	360
MS2012LC-120□-LF	12@2.5MHz	J, K, M	14@2.5MHz	30	0.90	340
MS2012LC-150□-LF	15@2.5MHz	J, K, M	15@2.5MHz	28	1.40	300
MS2012LC-180□-LF	18@2.5MHz	J, K, M	15@2.5MHz	27	1.55	280
MS2012LC-220□-LF	22@2.5MHz	J, K, M	15@2.5MHz	20	1.76	240
MS2012LC-270□-LF	27@2.5MHz	J, K, M	15@2.5MHz	17	2.00	220
MS2012LC-330□-LF	33@2.5MHz	J, K, M	15@2.5MHz	17	2.35	200
MS2012LC-470□-LF	47@2.5MHz	J, K, M	14@2.5MHz	15	3.40	160
MS2012LC-680□-LF	68@2.5MHz	J, K, M	14@2.5MHz	10	4.45	140
MS2012LC-101□-LF	100@1.0MHz	J, K, M	10@1.0MHz	9	7.50	100

※ Inductance, Q and SRF are measured in HP-E4991A impedance analyzer with HP-16197A fixture.

※ Inductance Tolerance : J=5%, K=10%, M=20%.

※ RDC is measured in Chroma 16502 mill ohm meter.(or equivalent)

※ IDC For inductance drop 10% from it's value without current .

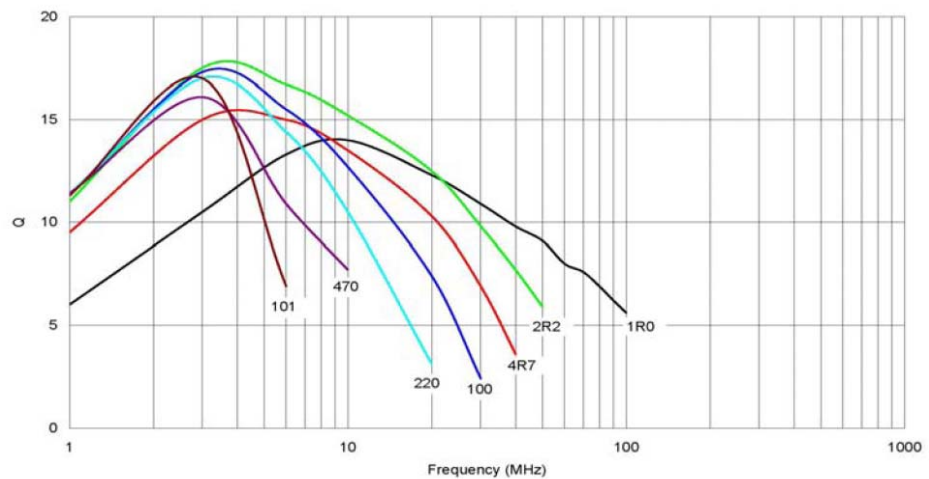
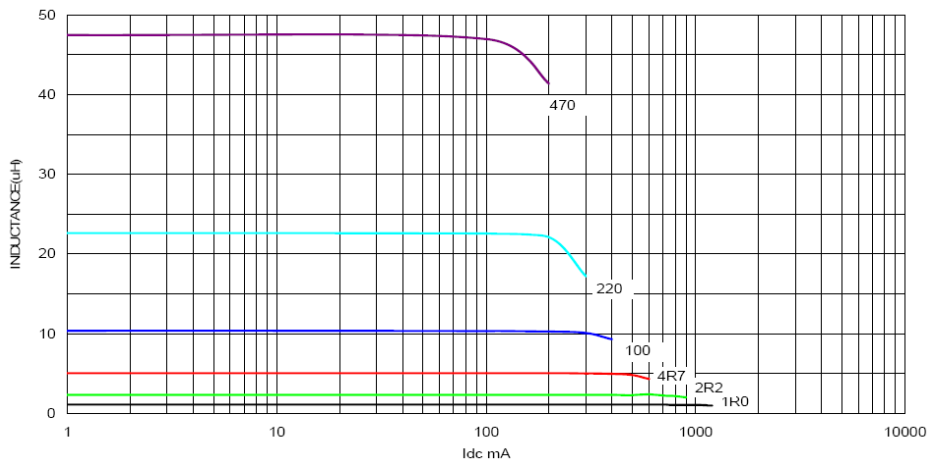
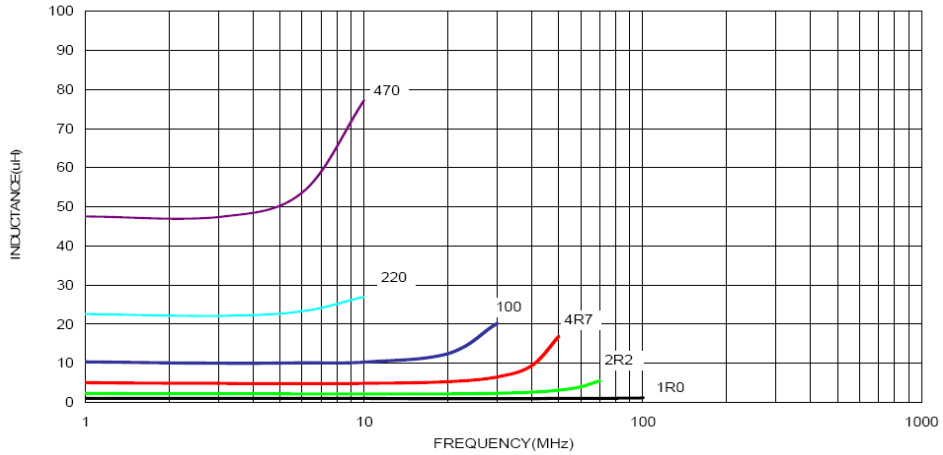


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RoHS Compliant

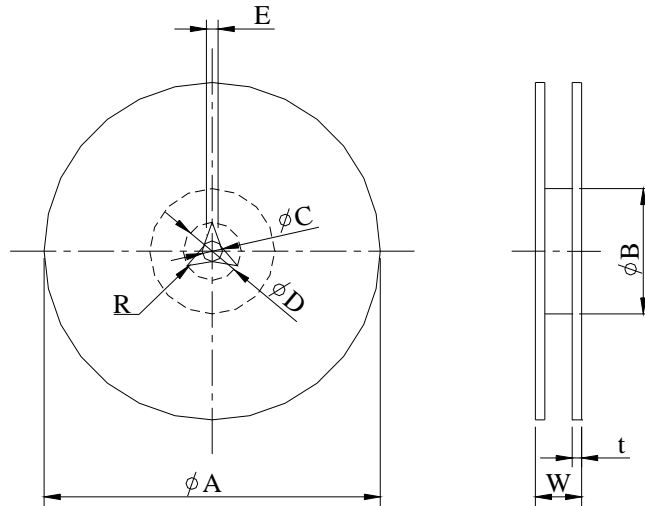
## CURVE



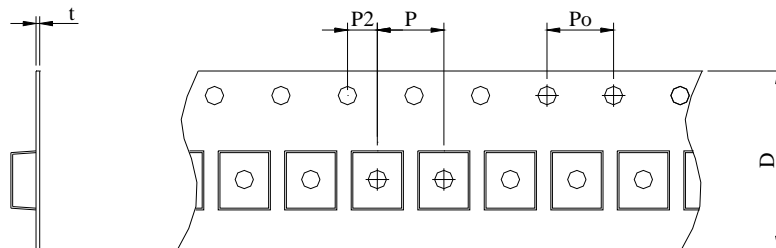
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## PACKAGING SPECIFICATION



	A	B	C	D	E	W	t	R
T( $\phi 180\text{mm}$ ) Reel	$\phi 180$	$\phi 60$	$\phi 13$	—	—	14.4	—	—



TYPE	Reel/pcs	P	P <sub>o</sub>	P <sub>2</sub>	t	D
MS2012LC	2000	4	4	2	1	8