Coilmaster Electronics Co., Ltd.
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Wire Wound Ceramic Chip Inductors - MS3225 SERIES

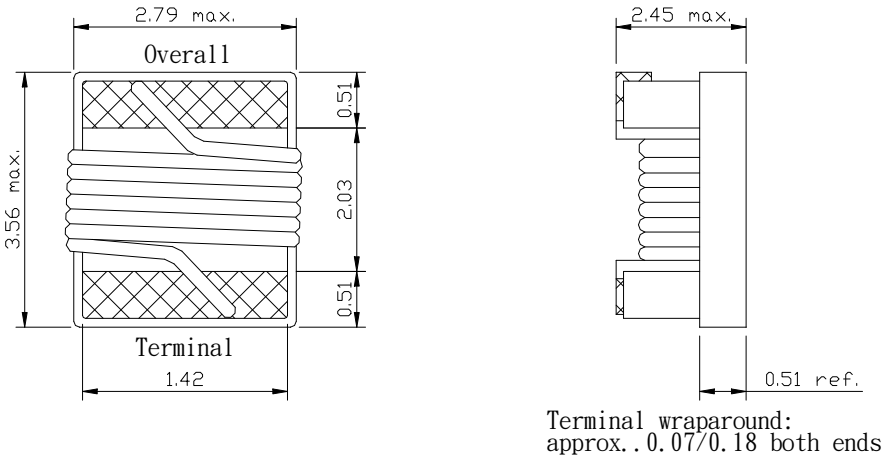
RoHS COMPLIANT | REACH | Halogen Free

PART NUMBERING SYSTEM

MS	3225	—	82NJ	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

SHAPES AND DIMENSIONS

UNIT : mm



FEATURES

- Size : **3.56(L)x2.79(W)x2.45(Ht)mm Max**
- Inductance values from **4.7 nH to 2,200 nH** (tolerances as low as 1%)
- **Exceptionally high Q** compared to non-wire wound inductors, especially at high frequencies
- Ceramic construction for **highest possible self resonance** (as high as 6000 MHz)
- **Excellent current carrying** capacity for their size
- **RoHS-compliant** 260°C compatible.

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (nH)	TOLERANCE	Q. MIN.	SRF (MHz) MIN.	DCR (Ω) (max)	IDC (mA) (max)
MS3225-4N7□-LF	4.7@100MHz	B,S	50@1000MHz	6000	0.06	1000
MS3225-5N6□-LF	5.6@100MHz	B,J,K	50@1000MHz	5500	0.08	1000
MS3225-10N□-LF	10@100MHz	G,K,J	60@500MHz	4000	0.06	1000
MS3225-12N□-LF	12@100MHz	G,K,J	60@500MHz	3400	0.06	1000
MS3225-15N□-LF	15@100MHz	G,K,J	60@500MHz	3200	0.06	1000
MS3225-18N□-LF	18@100MHz	G,K,J	60@300MHz	2800	0.06	1000
MS3225-22N□-LF	22@100MHz	G,K,J	60@300MHz	2300	0.08	1000
MS3225-27N□-LF	27@100MHz	G,K,J	60@300MHz	2000	0.08	1000
MS3225-33N□-LF	33@100MHz	G,K,J	60@300MHz	1800	0.08	1000
MS3225-39N□-LF	39@100MHz	G,K,J	60@300MHz	1800	0.08	1000
MS3225-47N□-LF	47@100MHz	G,K,J	60@300MHz	1600	0.08	1000
MS3225-56N□-LF	56@100MHz	G,K,J	60@300MHz	1500	0.10	1000
MS3225-68N□-LF	68@100MHz	G,K,J	60@300MHz	1300	0.10	1000
MS3225-82N□-LF	82@100MHz	G,K,J	60@300MHz	1200	0.10	1000
MS3225-R10□-LF	100@100MHz	G,K,J	60@300MHz	1100	0.10	1000
MS3225-R12□-LF	120@50MHz	G,K,J	60@300MHz	900	0.12	800
MS3225-R15□-LF	150@50MHz	G,K,J	60@300MHz	800	0.18	800
MS3225-R18□-LF	180@50MHz	G,K,J	60@300MHz	760	0.21	800
MS3225-R22□-LF	220@50MHz	G,K,J	60@300MHz	660	0.27	800
MS3225-R27□-LF	270@50MHz	G,K,J	50@300MHz	600	0.33	700
MS3225-R33□-LF	330@50MHz	G,K,J	50@100MHz	550	0.37	650
MS3225-R39□-LF	390@50MHz	G,K,J	50@100MHz	500	0.63	600
MS3225-R47□-LF	470@50MHz	G,K,J	50@100MHz	450	0.69	550
MS3225-R56□-LF	560@50MHz	G,K,J	50@100MHz	400	0.90	450
MS3225-R68□-LF	680@25MHz	G,K,J	50@100MHz	380	1.05	400
MS3225-R82□-LF	820@25MHz	G,K,J	50@100MHz	350	1.45	350
MS3225-1R0□-LF	1000@25MHz	G,K,J	45@50MHz	300	1.90	280
MS3225-1R2□-LF	1200@25MHz	G,K,J	45@50MHz	300	2.20	250
MS3225-1R5□-LF	1500@25MHz	G,K,J	45@50MHz	250	2.43	220
MS3225-1R8□-LF	1800@25MHz	G,K,J	45@50MHz	200	3.36	180
MS3225-2R2□-LF	2200@25MHz	G,K,J	45@50MHz	200	3.50	150

TEST EQUIPMENT:HP-4286A IMPEDANCE ANALYZER

INDUTANCE TOLERANCE：B=±0.15nH, S=±0.3nH, G=±2%, J=±5%, K=±10%

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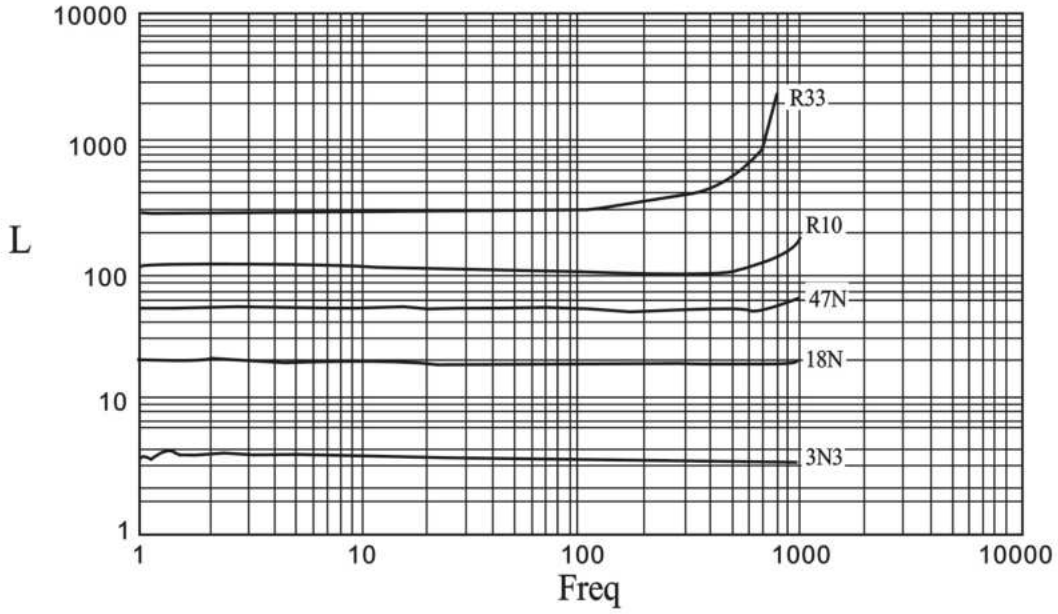
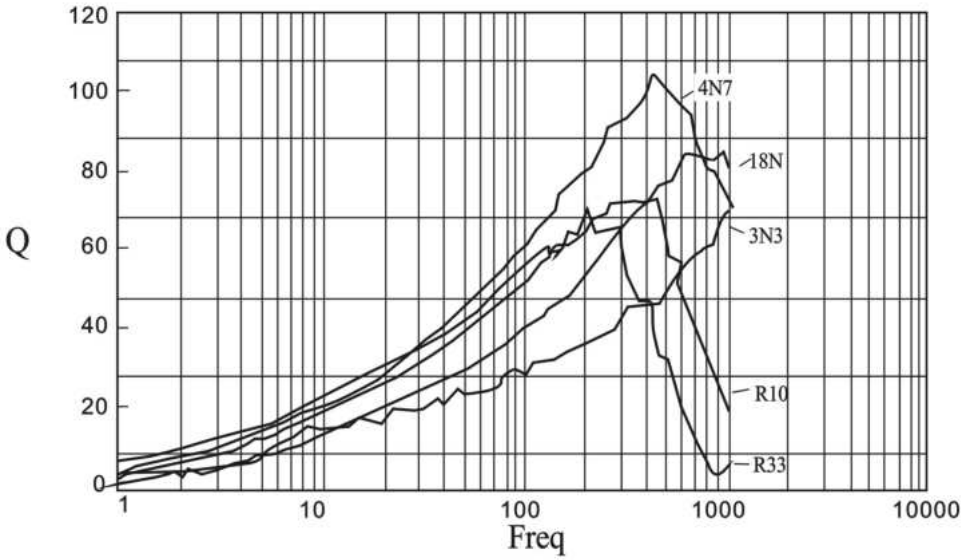
ELECTRICAL CHARACTERISTICS

INDUCTANCE vs. FREQUENCY CHARACTERISTICS



Q vs. FREQUENCY CHARACTERISTICS



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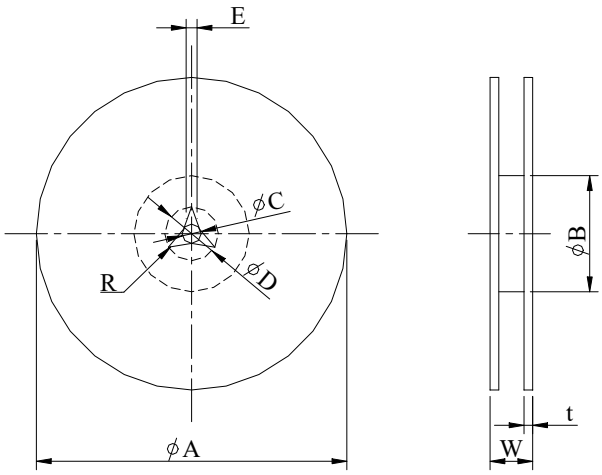
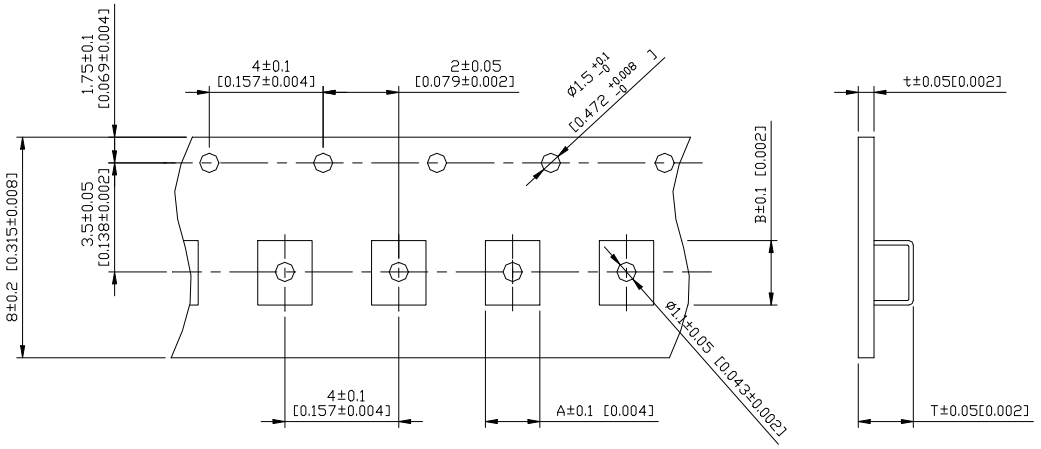
PACKAGING SPECIFICATION



	A	B	C	D	E	W8	W12	t	R
T(ψ178mm) Reel	ψ178±2	ψ60±1	ψ13±0.8	ψ21±0.8	2	10±1.5	14.5±1.5	1.27±0.2	1



TYPE	A	B	T	t	T(ψ178mm)	T(ψ330mm)
MS3225	2.90	3.60	1.70	0.25	2000 pcs/reel	-