

MS1204 SERIES ~

Wire Wound RFID Transponder Coils



RoHS Compliant

PART NUMBERING SYSTEM

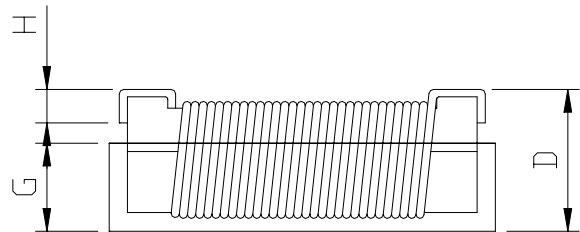
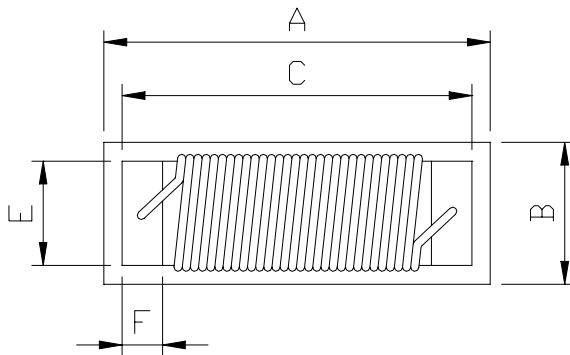
<u>MS</u>	<u>1 2 0 4</u>	—	<u>4 0 1</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES

- Low profile with an extended length
- High Q value .
- Application for Car remote control key .
- Lead Free with RoHS compliant .

SHAPES AND DIMENSIONS

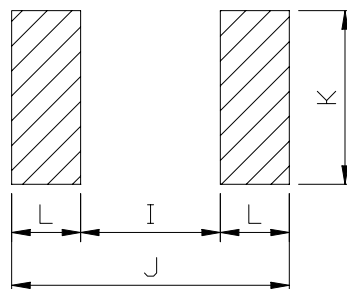
UNIT : mm



A=11.68 Max. B=3.15 Max. C=10.92±0.25 D=3.0 Max. E=2.03±0.25 F=1.0±0.25 G=1.0±0.25 H=0.5±0.25

RECOMMENDED PATTERNS

UNIT : mm



I=8.46 J=12.01 K=2.79 L=1.77

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (mH)±5%	Q MIN.	SRF (KHz) MIN.	DCR (Ω) MAX.	MATCHING CAPACITOR (pF)
MS1204-401J-LF	0.40 @125KHz	15	4500	7.4	4000
MS1204-901J-LF	0.90 @125KHz	15	4000	22	1800
MS1204-102J-LF	1.08 @125KHz	15	4000	25	1500
MS1204-202J-LF	1.97 @125KHz	17	2400	34	820
MS1204-242J-LF	2.38 @125KHz	17	2200	39	680
MS1204-332J-LF	3.30 @125KHz	17	1800	51	490
MS1204-412J-LF	4.15 @125KHz	17	1700	74	390
MS1204-492J-LF	4.90 @125KHz	17	1300	96	330
MS1204-682J-LF	6.80 @125KHz	17	1000	112	240
MS1204-712J-LF	7.10 @125KHz	17	1000	115	220
MS1204-812J-LF	8.10 @125KHz	17	960	123	200

- ※ Inductance and Q measured using HP4192A impedance analyzer. For recommended Inductance and Q measured AT 125KHz, 0.1Vrms.
- ※ SRF measured using HP8753D network analyzer.
- ※ Operating temperature range -40°C to +85°C.
- ※ Electrical specifications at 25°C.