



MS1204 SERIES ~

Wire Wound RFID Transponder Coils



RoHS Compliant

PART NUMBERING SYSTEM

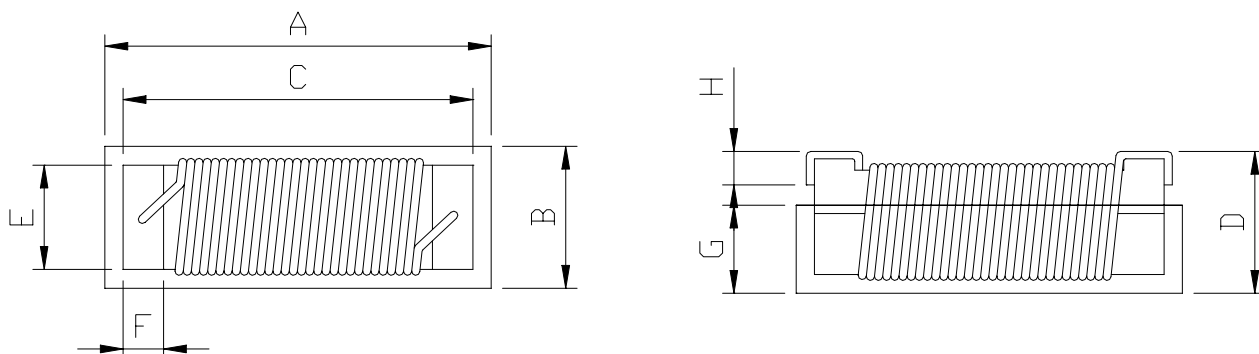
| | | | | | |
|-----------|-------------|---|------------|---|-----------|
| <u>MS</u> | <u>1204</u> | — | <u>401</u> | — | <u>LF</u> |
| TYPE | DIMENSIONS | | INDUCTANCE | | LEAD FREE |

FEATURES

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

SHAPES AND DIMENSIONS

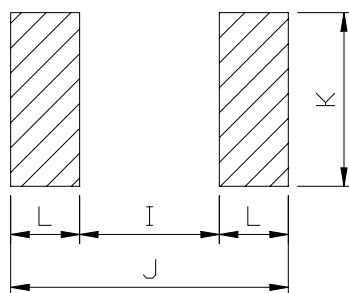
UNIT : mm



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.