

**NEW!**

RFID Transponder Coil – MA5532-AE



- Developed for austriamicrosystems AS3935 Franklin Lightning Sensor IC
- Designed for antenna applications at 500 kHz to 2 MHz.
- Wound on plastic base for great durability and excellent mechanical shock resistance.
- 125°C operating temperature range

Terminations Gold over nickel over phos bronze.

Environmental RoHS compliant, halogen free

Weight 320 mg

Ambient temperature –40°C to +125°C

Storage temperature Component: –40°C to +125°C.

Tape and reel packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Temperature coefficient of inductance +50 to +210 ppm/°C

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

One per billion hours / one billion hours, calculated per Telcordia SR-332

Packaging 2500 per 13" reel Plastic tape: 24 mm wide,

0.35 mm thick, 8 mm pocket spacing, 2.75 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² at 2 MHz ±2% (µH)	Q min ²	DCR max ³ (Ohms)	SRF typ ⁴ (MHz)
MA5532-AE_	100	30	6.0	34

1. When ordering, please specify **packaging** code:

MA5532-AED

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (2500 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

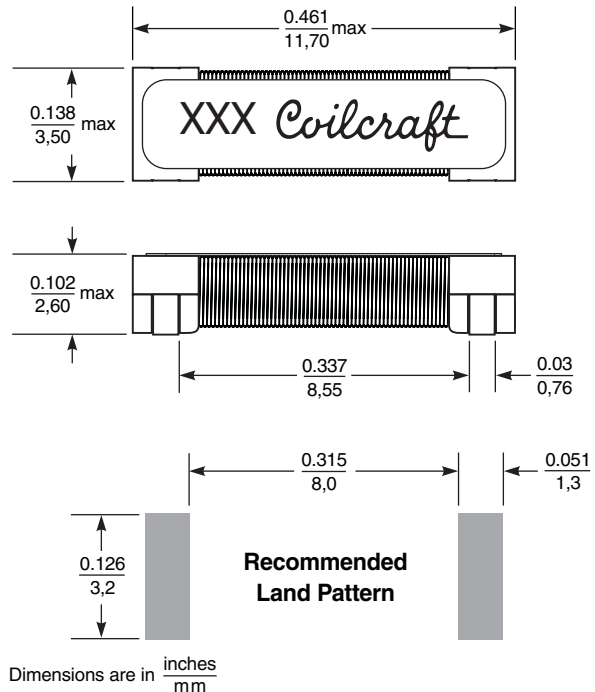
2. Inductance and Q measured using Agilent/HP 4287A iLCR meter or equivalent at 2 MHz. For recommended test procedures, contact Coilcraft.

3. DCR measured on micro-ohmmeter.

4. SRF measured using Agilent/HP 8753D network analyzer.

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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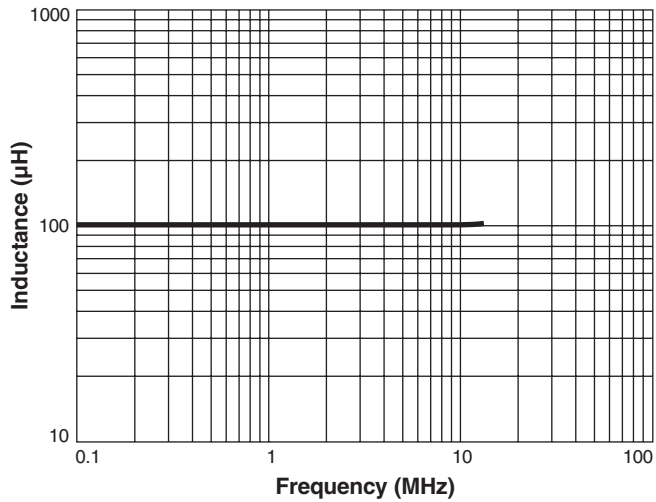
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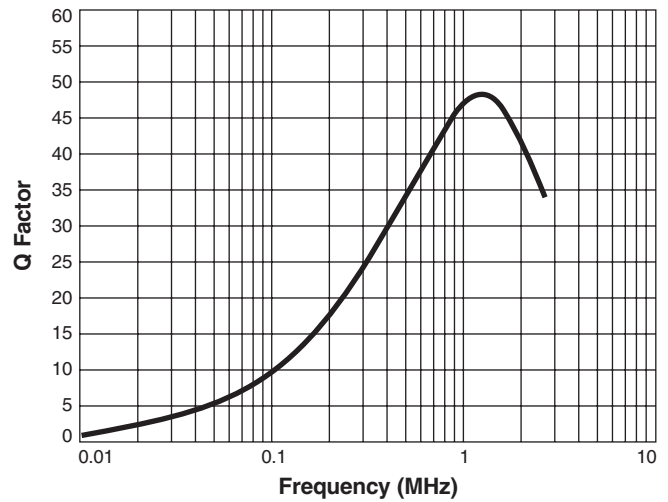
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L vs Frequency



Q vs Frequency



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