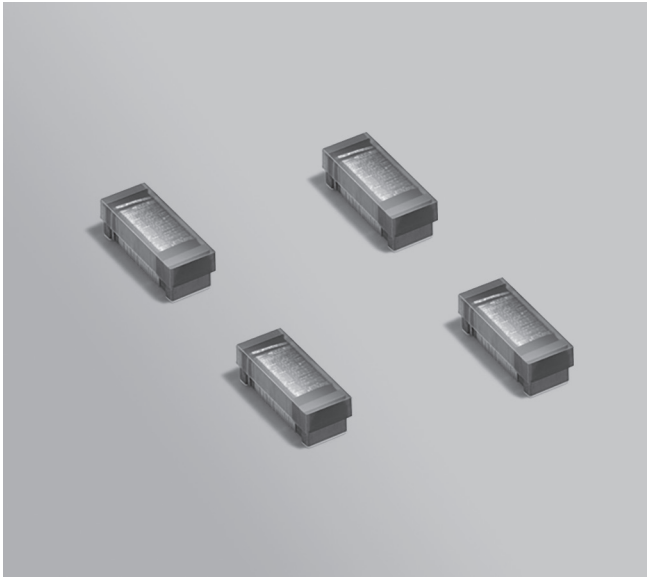


NEW!

NFMI Antenna Coil 2208NF (5520)



- Designed for Near Field Magnetic Induction (NFMI) for syncing earbuds/headphones, hearing aids, and other IoT wearable devices in audio data streaming applications
- Optimized for use at 10.579 MHz
- Small surface mount package, only 5.95 × 2.48 × 2.2 mm (L × W × H)

Core material Ferrite

Environmental RoHS compliant without exemption, halogen free

Terminations RoHS compliant matte tin over nickel over silver-platinum-glass frit.

Weight 0.1 g

Ambient temperature -40°C to +85°C with Irms current

Maximum part temperature +100°C (Ambient + temperature rise)

Storage temperature Component: -40°C to +100°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

Temperature Coefficient of Inductance (TCL) +25 to +150 ppm/°C

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

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

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

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±5% (µH)	Q typ ³ @10.579 MHz	SRF typ ⁴ (MHz)	DCR (mOhms) ⁵		Irms (mA) ⁶ 15°C rise
				typ	max	
2208NF-372XJR_	3.7	80	200	660	710	410
2208NF-392XJR_	3.9	80	195	690	740	405

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

2208NF-392XJRC

Termination: R = RoHS compliant matte tin over nickel over silver-platinum-glass frit.

Packaging: C = 7" machine-ready reel. EIA-481 punched paper tape (1000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 punched paper tape. Factory order only, not stocked (3500 parts per full reel).

2. Inductance measured at 10.579 MHz using a Coilcraft CCF1506 test fixture and Coilcraft-provided correlation pieces with an Agilent/HP 4286 impedance analyzer.

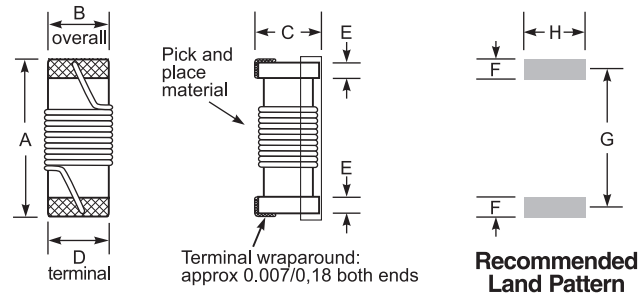
3. Q measured using an Agilent/HP 4991A.

4. SRF measured using Agilent/HP 8753D network analyzer and Coilcraft CCF1506 test fixture.

5. DCR measured on Cambridge Technology micro-ohmmeter and a Coilcraft CCF858 test fixture.

6. Current that causes a 15°C temperature rise from 25°C ambient. Because of their open construction, these parts will not saturate.

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



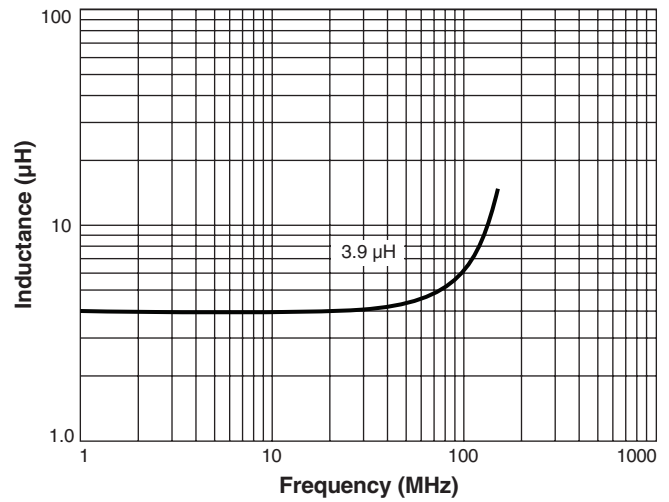
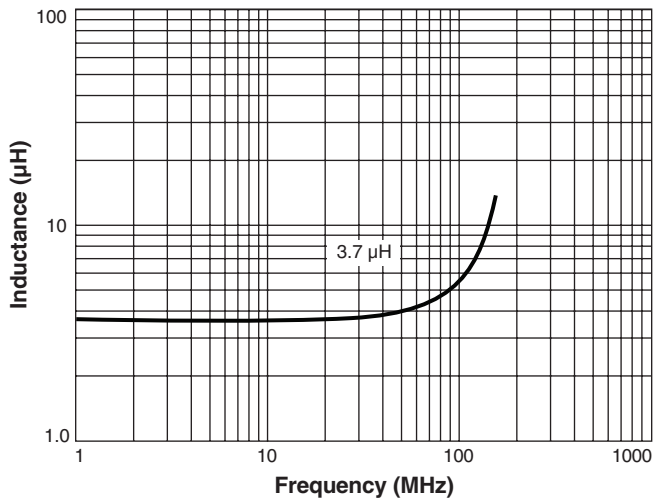
Amax	Bmax	Cmax	D	E	F	G	H	
0.234	0.098	0.087	0.079	0.020	0.026	0.171	0.085	inches
5,95	2,48	2,20	2,00	0,50	0,65	4,35	2,15	mm

Packaging 1000 per 7" reel; 3500 per 13" reel. Paper tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 2.26 mm pocket depth

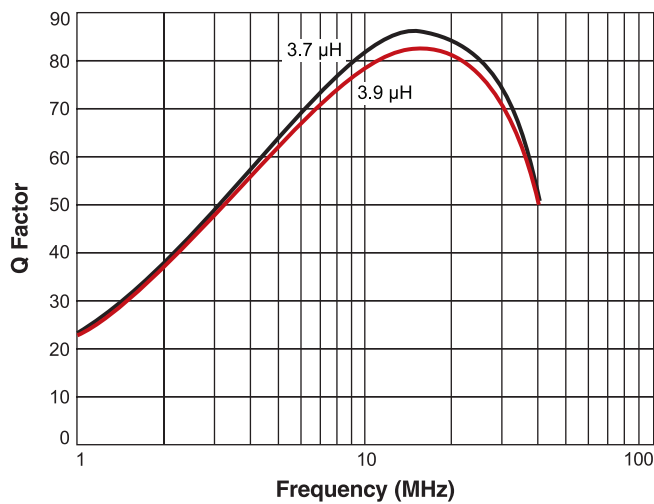


NFMI Antenna Coil – 2208NF

Typical L vs Frequency



Typical Q vs Frequency



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