

**RoHS
Compliant**



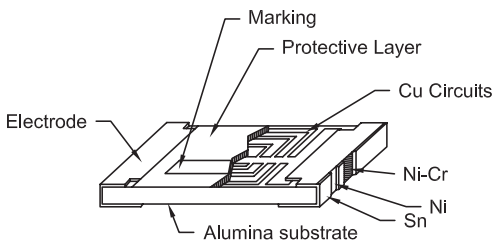
Features

- Photolithographic single layer ceramic chip
- High SRF, excellent Q, superior temperature stability
- Tight tolerance of $\pm 1\%$ or $\pm 0.1\text{nH}$
- Self resonant frequency controlled within 10%
- Stable inductance in high frequency circuit
- Highly stable design for critical needs

Application

- Cellular Phone, Pagers and GPS Products
- VCO, TCXO, Circuit an dRF Transceiver Module
- Wireless LAN Bluetooth module, Communication Appliances

Construction



Item	Specification	Test Method	
1	Bending Test	As SPEC.	JIS-C-5202-6. 1.4 Bending Amplitude 3mm for 10 seconds
2	Dielectric Withstand Voltage	>100V	MIL-STD-202F Method 301. Apply 100VA (rms) for 1minute.
3	Insulation Resistance	>1000Mn	MIL-STD-202F Method 302 Apply 100V DC for 1 minute.
4	Resistance to Soldering Heat	$\Delta L < 10\%$	MIL-STD-202F Method 210E 260 \pm 5°C 10 \pm 1seconds
5	High Temperature Exposure	$\Delta L < 10\%$	JIS-C-5202-7.2 85 \pm 2°C, 1000 +48/-0 hours
6	Moisture Resistance	$\Delta L < 10\%$	MIL-STD-202F Method 103B 40 \pm 2°C, 90-95%RH 1000 +48/-0 hours
7	Low Temperature Storage	$\Delta L < 10\%$	JIS-C-5202-7.1 -40 \pm 3°C. 1 000 +48/-0 hours
8	Temperature Cycle	$\Delta L < 10\%$	JIS-C-5202-7.4 -40/RT/85/RT 10 cycles
9	Solderability	95% min coverage	MIL-STD-202F Method 208H 245°C +soc 3+0.5(sec)

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

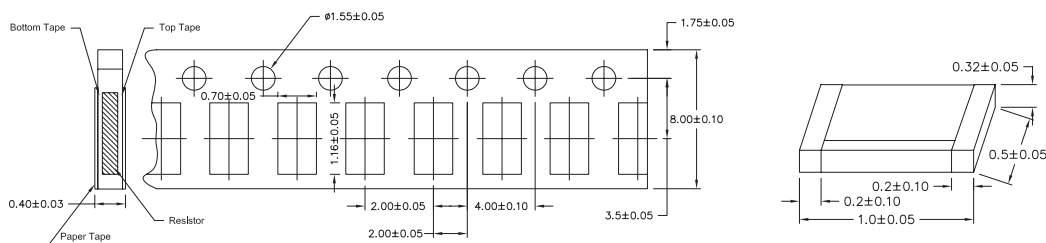
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Specification Table

Part Number	Package/Case	Q Factor	Test Frequency
MCFT000003	0402	Q Factor:13	500MHz
MCFT000004			
MCFT000008			
MCFT000009			

Part Number	Inductance	Inductance Tolerance	DC Resistance Max	DC Current Rating	Self Resonant Frequency
MCFT000003	3.3nH	±0.1nH	0.45ohm	380mA	6GHz
MCFT000004	4.7nH	±0.1nH	0.65ohm	320mA	5GHz
MCFT000008	15nH	±1%	1.75ohm	130mA	3GHz
MCFT000009	22nH	±1%	2.65ohm	90mA	2GHz

Tape Dimension



Dimensions : Millimetres

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