

Thin Film Chip Inductor

Case Size 0402

multicomp PRO

**RoHS
Compliant**



Applications

- Cellular Telephone, Pagers and GPS Products
- VCO, TCXO Circuit and RF Transceiver Module
- Wireless LAN, Bluetooth Module, Communication Appliances

Features

- Photolithographic Single Layer Ceramic Chip
- Self-Resonant Frequency Controlled within 10%
- Stable Inductance in High Frequency Circuit
- Highly Stable Design for Critical Needs
- Operating Temperature Range: -40°C to +85°C

Specification Table

Inductance	Tolerance	DC Resistance	DC Current Rating	Self Resonant Frequency	Q Factor	Package/Case
2.2nH	±0.1nH	0.35Ω	440mA	8GHz	13 / 500MHz	0402

Item	Specifications	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 100V A (rms) for 1 minute.
3	Insulation Resistance	>1000MΩ MIL-STD-202F Method 302 Apply 100 V DC for 1 minute.
4	Resistance to Soldering Heat	ΔL<10% MIL-STD-202F Method 210E 260 ±5°C 10 ±1 seconds.
5	High Temperature Exposure	ΔL<10% JIS-C-5202-7.2 85 ±2°C, 1000 +48/-0 hours
6	Moisture Resistance	ΔL<10% MIL-STD-202F Method 103B 40 ±2°C, 90-95%RH 1000 +48/-0 hours
7	Low Temperature Storage	ΔL<10% JIS-C-5202-7.1 -40±3°C, 1000 +48/-0 hours
8	Temperature Cycle	ΔL<10% JIS-C-5202-7.4 -40/RT/85/RT 10 cycles
9	Solderability	95% min coverage MIL-STD-202F Method 208H 245°C ±5°C, 3 ±0.5 (sec)

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

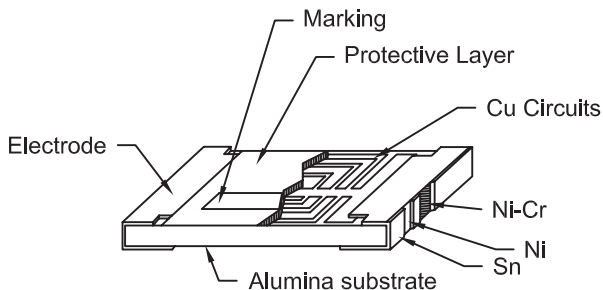
multicomp PRO

Thin Film Chip Inductor

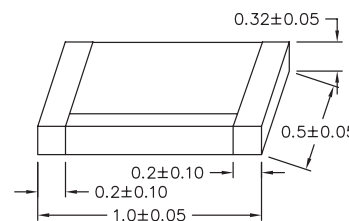
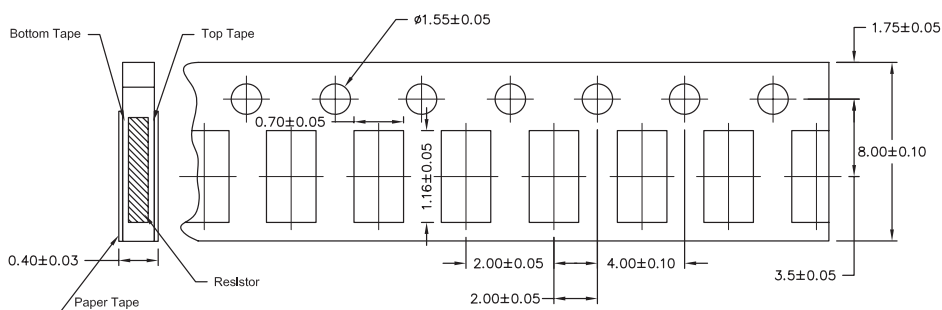
Case Size 0402

multicomp PRO

Structure



Tape Dimension



Dimensions : Millimetres

Part Number Table

Description	Part Number
Thin Film Chip Inductor, 2.2nH \pm 0.1nH, 0402	MCFT000002

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

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

multicomp PRO