TC0502HF

NFC SMD antenna 5.4x2.8x2.85mm

NFC ANTENNAS





FEATURES

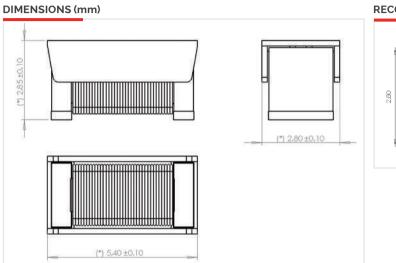
This component is an SMD ferrite antenna suitable for signal reception/transmission at 13.56MHz.

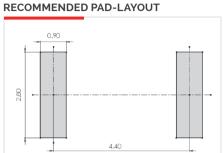
TC0502HF is a highly sensitive and compact solution specially designed for those NFC applications where size of components is critical. TC0502HF series is offered with 2.0 and 4.7 µH (@13,56MHz) inductance values and can be custom according to customer's specification.

CHARACTERISTICS

- > This component is functional to 13.56MHz (NFC applications)
- > Can be used in RFID applications with ISO15693 (vicinity: I-Code), ISO 14443A&B (proximity: MIFARE) interface, ISO 18092 and Felica
- > Very small size: 5.2x2.4x2.7mm
- Good mechanical performance
- > Very stable electrical properties in full operational operative range (-40°C +125°C)
- > Wire: H, 125°C solderable.
- > Terminals: Ag-Ni-Sn100
- > Max. Operating Temperature: +125°C
- > Suitable for Pick&Place SMD assembly

02 SPECIFICATIONS





ELECTRICAL SPECIFICATIONS

	L (mH)	Q Min	Cres (pF)	SRF (MHz) Min	DRC (Ω)Max	Dimensions (mm) Max
TC0502HF-0002K	2.0 ± 10%	16	68	25	0.935	5.2 x 2.4 x 2.7
TC0502HF-00047K	4.7 ± 10%	18	29	25	1.540	5.2 x 2.4 x 2.7

Inductance, Q factor, DCR and SRF measured with an LCR meter HP 4887A 5.2x2.4x2.7mm MAX