General Components Industry Corporation

Transponder Inductor

GAS4420F-SERIES

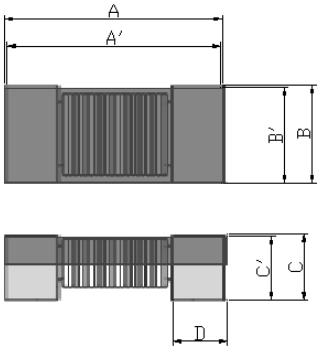
1. Features

1. Hearing Aid Compatibility-/Telecoil-antennas;
2. GAS4420F-series realizes small size and low profile. 4.4x2.0x2.0 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Meets the T3 FCC requirements(HAC-Act) acc. ANSI C63.19
5. Operating temperature-40~+125℃ (Including self - temperature rise)

2. Applications

1. T-coil/HAC-coil for hearing and aid compatible cell phones .
2. Decoupling in RF and IF-circuit .
3. Transponder antenna .

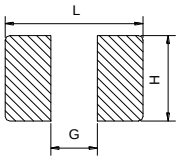
3. Dimensions



Size	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	C'(mm)	D(mm)
GAS4420F	4.75±0.2	4.4±0.2	2.25±0.2	2.0±0.2	1.80±0.3	1.80±0.2	0.8 ref.

Units : mm

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
4.8	3.2	2.3

4. Part Numbering

GAS	4420	F	-	252	M	-	F10
A	B	C		D	E		F

A: Series
B: Dimension L x H
C: Lead Free Code
D: Inductance 252=2500 uH
E: Inductance Tolerance K=±10% M=±20% 10 KHZ
F: Test Frequency

5. Specification

Part Number	Inductance (uH) ±10%	f_{L0} (kHz)	SRF MHz(min)	RDC (Ω)	Rated current (mA) max.
GAS4420F-252M-F10	2500	10	1	82±10%	40
GAS4420F-352K-F10	3500	10	1	85Max	20

Note:

1. Test frequency : Inductor(L) : 10KHz /0.1V;
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L/Q: Agilent-4192A, Agilent-16334A ; Irms:CH3302,CH1320 ; SRF: Agilent-4291B ; Rdc: Agilent-34420A
4. Rated Current (Irms) will cause the coil temperature rise approximately △t of 20℃ .

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