



## Transponder Inductor

GAS6420F-SERIES

### 1.Features

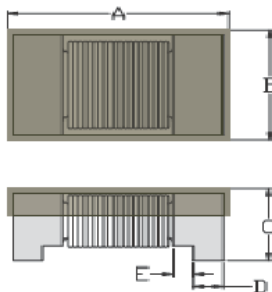
1. Hearing Aid Compatibility-/Telecoil-antennas;
2. GAS6420F-series realizes small size and low profile. 6.4x2.3x2.0 mm.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Meets the T3/T4 FCC requirements(HAC-Act) acc. ANSI C63.19
5. Operating temperature-40~+125°C (Including self - temperature rise)



### 2. Applications

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

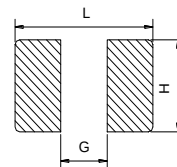
### 3. Dimensions



| Size     | A(mm)   | B(mm)   | C(mm)   | D(mm)    | E(mm)    |
|----------|---------|---------|---------|----------|----------|
| GAS6420F | 6.4±0.3 | 2.3±0.2 | 1.8±0.2 | 0.9 ref. | 0.5 ref. |

Unit:mm

#### Recommend PC Board Pattern



| L(mm) | G(mm) | H(mm) |
|-------|-------|-------|
| 7.0   | 4.6   | 2.0   |

### 4. Part Numbering

|            |             |          |   |            |          |   |            |
|------------|-------------|----------|---|------------|----------|---|------------|
| <b>GAS</b> | <b>6420</b> | <b>F</b> | - | <b>701</b> | <b>K</b> | - | <b>F10</b> |
| A          | B           | C        |   | D          | E        |   | F          |

A: Series  
 B: Dimension  
 C: Lead Free Code  
 D: Inductance  
 E: Inductance Tolerance  
 F: Test Frequency

L x H  
 701=700 uH  
 K=±10%  
 10 KHZ

### 5. Specification

| Part Number       | Inductance (uH) ±10% | f <sub>Lo</sub> (kHz) | SRF Hz(min) | RDC(Ω) ±10% | Rated current (mA)Max. |
|-------------------|----------------------|-----------------------|-------------|-------------|------------------------|
| GAS6420F-701K-F10 | 700                  | 10                    | 2.45M       | 12          | 80                     |
| GAS6420F-532K-F10 | 5300                 | 10                    | 510K        | 66          | 30                     |
| GAS6420F-722K-F10 | 7200                 | 10                    | 1.0M        | 130         | 15                     |

Note:

1. Test frequency : Inductor(L) : 10KHz /0.1V;
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L/Q: Agilent-4192A, Agilent-16334A ; Irms:CH3302,CH1320 ; SRF: Agilent-E4991A ; Rdc: Agilent-34420A
4. Rated Current (Irms) will cause the coil temperature rise approximately Δt of 20°C .