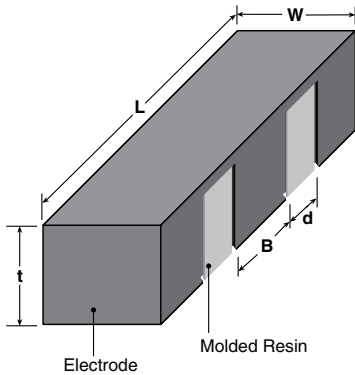


features

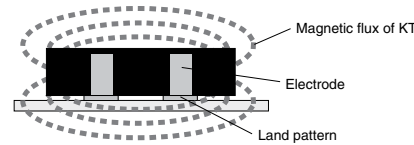
- Transponder coil is arranged with electrode in the long side of the part, and covered with molding resin
- Excellent high Q and high sensitivity, because neither the electrode nor the land pattern disturb the coil flux
- Strong resistance to vibration, shock and substrate bend test by 4 electrode terminals structure and the molded resin
- Small inductance change to environmental temperature change
- Marking: Black body color
- Products meet EU RoHS requirements
- AEC-Q200 Qualified

Inductors

dimensions and construction



| Type | Dimensions inches (mm) | | | | |
|------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| | B | d | L | W | t |
| KT | .134 Typ. (3.4 Typ.) | .059 Typ. (1.5 Typ.) | .465±.008 (11.8±0.2) | .142±.008 (3.6±0.2) | .118 Max. (3.0 Max.) |



ordering information

| KT | 11835 | T | TEG | 722 | J |
|--------------|------------------------------------|---------------------------|--|--------------------------------------|----------------------------|
| Product Code | Style | Terminal Surface Material | Packaging | Nominal Inductance | Tolerance |
| | L x W x H (mm) 11.8 x 3.6 x 3.0 | T: Sn | TEG: plastic embossed 2,500 pieces/reel | 3 digits: 722: 7.2mH 123: 12mH | G: ±2% H: ±3% J: ±5% |

For further information on packaging, please refer to Appendix A.

ratings

| Type | Nominal Inductance (mH) | Inductance Tolerance | Unload Quality Factor Min. | L, Q Measuring Frequency (kHz) | Self Resonant Frequency (kHz) Min. | DC Resistance (Ω)Max. | Allowable DC Current (mA) Max. | Sensitivity (mV/μT) Typ. |
|------------------|-------------------------|----------------------------|----------------------------|--------------------------------|------------------------------------|-----------------------|--------------------------------|--------------------------|
| KT11835TTEG242 □ | 2.4 | G: ±2% H: ±3% J: ±5% | 32 | 125 | 700 | 32 | 30 | 28 |
| KT11835TTEG402 □ | 4.0 | | 36 | | 600 | 45 | 25 | 35 |
| KT11835TTEG502 □ | 5.0 | | 32 | | 800 | 75 | 22 | 40 |
| KT11835TTEG722 □ | 7.2 | | 40 | | 750 | 92 | 15 | 55 |
| KT11835TTEG123 □ | 12 | | 45 | | 500 | 119 | 12 | 75 |

The code for inductance tolerance (G, H, J) enters □

Any other inductance under 12mH is available

Operating Temperature Range: -40°C - +125°C (Self-heating is included). That the operating temperature upper limit temperature of the coil winding portions (ambient temperature + self-heating) is (+125°C) or less.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

4/08/16