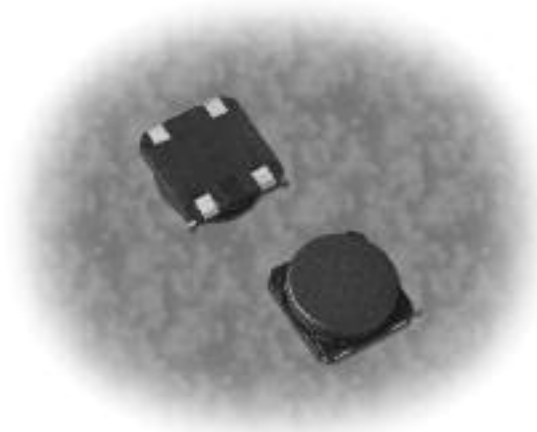
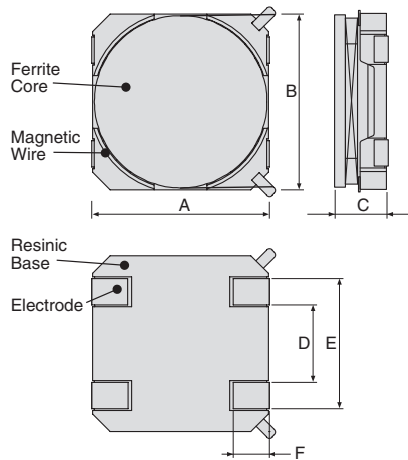


features

- Impact resistant due to 4 electrode terminal and unique coil structure
- Small inductance change to environmental temperature change
- Products meet EU RoHS requirements
- Suitable for reflow solderings
- AEC-Q200 Qualified

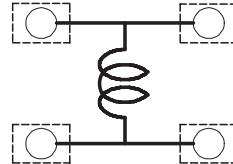


dimensions and construction



Size	Dimensions inches (mm)					
	A	B	C	D	E	F
KTZ1030	.398±.008 (10.1±0.2)	.394±.008 (10.0±0.2)	.126 Max. (3.2 Max.)	.173 Typ. (4.4 Typ.)	.291 Typ. (7.4 Typ.)	.079 Typ. (2.0 Typ.)

Circuit Construction



ordering information

New Part #	KTZ	1030	T	TEG	762	J
	Type	Style	Terminal Surface Material	Taping	Nominal Inductance	Tolerance
		L x W x H (mm) 10 x 10 x 3	T: Sn	TEG: Plastic embossed	762: 7.6mH	G: ±2% H: ±3% J: ±5%

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

applications and ratings

Type	Nominal Inductance (mH)	Measuring Frequency (kHz)	Inductance Tolerance	Unload Quality Factor (Min.)	Self Resonant Frequency (kHz) Min.	DC Resistance Maximum (Ω)	Allowable DC Current Maximum (mA)	Sensitive Factor Typ. (mV/uT)	Operating Temperature Range
KTZ1030TTEG762□	7.6	125	G: $\pm 2\%$ H: $\pm 3\%$ J: $\pm 5\%$	30	500	125	25	33	-40 to +125°C

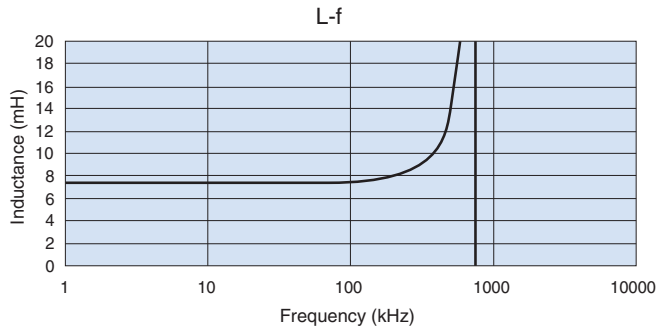
□ : Please designate inductance tolerance (G, H, J)
Any other inductance under 7.6mH is available

environmental applications

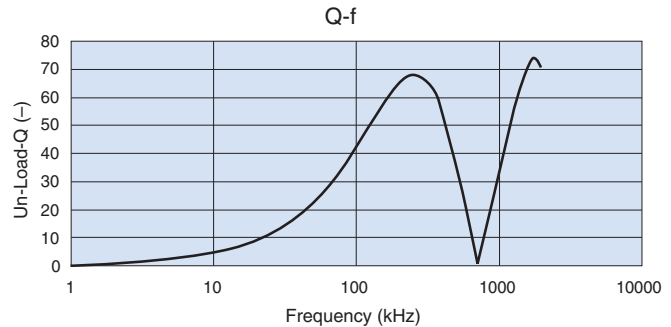
Characteristics

Test equipment: Agilent 4294A impedance analyzer

L-Frequency Characteristics



Q-Frequency Characteristics



Performance Characteristics

Parameter	Requirements Maximum Δ L/L		Test Method
	Limit	Typical	
Resistance to Reflow Heat	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	250°C p-p, Reflow profile
Rapid Change of Temperature	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	-40°C (30min.)/ +125°C (30min.) 1000 cycles
Low Temperature Exposure	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	-40°C \pm 2°C, 1000 hours
High Temperature Exposure	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	+125°C \pm 2°C, 1000 hours
Moisture Exposure	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	-40°C \pm 2°C, 90%~95%RH, 1000 hours
Temperature Characteristics	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 1\%$	+20°C \rightarrow -40°C, +20°C \rightarrow +125°C
Moisture Exposure	Δ L/L: $\pm 2\%$ No significant abnormality in appearance	Δ L/L: $\pm 0.5\%$	Drop the key case from height of 3m