

Radial lead metal thin film chip resistors (the highest reliability and precision)

■LRG series

Features

- \cdot Most reliable and the highest precision radial read thin film resistor
- The tightest resistance tolerance: +/-0.01%,the smallest temperature coefficient of resistance: ±1ppm/°C



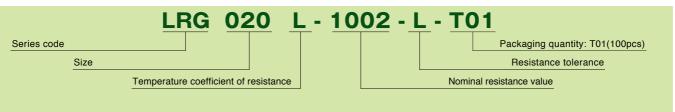




Applications

- · Industrial measurement, electrical scales
- · High precision sensors, medical electronics

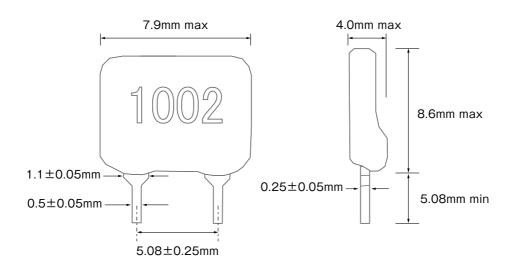
◆Part numbering system



◆Electrical Specification

Туре	Lead pitch	Power	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance				Maximum	Resistance	Operating	Packaging
	(mm)	ratings	(ppm/°C)	±0.01% (L)	±0.02% (P)	±0.05% (W)	±0.5% (D)	voltage	value series	temperature	quantity
	5.08	0.3W	±1(K)				250V	E-24, E-96	-55℃ ~ 125℃	100pcs	
LRG020			±2(L)	100≦R≦100k							
			±5(V)								

◆Dimensions



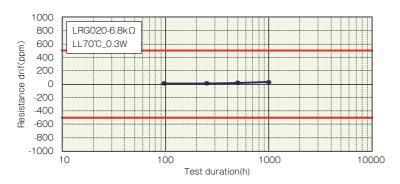
◆Reliability specification

Test items	Condition (test methods (MIL-PRF-55342/JIS C5201-1)	Standard		
Short time overload	2.5 x rated voltage ^{*,1} 5seconds	±0.05%+0.01Ω		
Life (biased)	70°C, rated voltage, 90min on 30min off, 2000hours	±0.05%+0.01Ω		
High temperature high humidity	85°C, 85%RH, 1/10 of rated power, 90min on 30min off, 2000hours	±0.05%+0.01Ω		
Temperature shock	-65°C (15min) ~ 150°C (15min) 100cycles	±0.05%+0.01Ω		
High temperature exposure	155°C, no bias, 100hours	±0.05%+0.01Ω		
Resistance to soldering heat	260±5°C, 10 seconds (reflow)	±0.05%+0.01Ω		

^{*1} Rated voltage is given by E=√R x P E= rated voltage (V), R=nominal resistance value(Ω), P=rated power(W) If rated voltage exceeds maximum voltage /element, maximum voltage/element is the rated voltage.

◆Reliability test data

○Biased life test



♦Derating Curve

