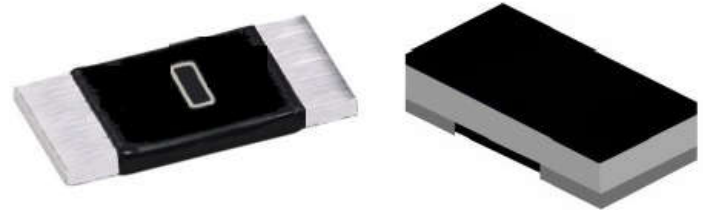


LRJ - 0R High Current Zero Ohm Resistor

- ULTRA-LOW RESISTANCE VALUES—MAX. 0.5mΩ
- HIGH CURRENT APPLICATION
- LEAD FREE, RoHS & REACHCOMPLIANT
- IDEAL FOR POWER MANAGEMENT, ELECTRICAL TOOLS



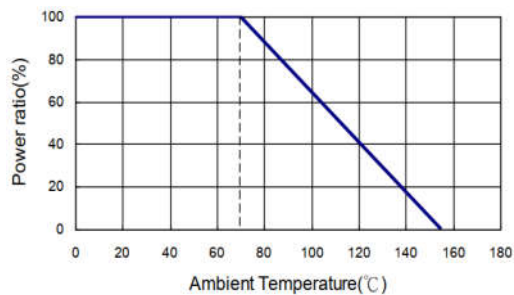
DIMENSIONS

STYLE		DIMENSIONS (mm)			
Series	Type	L	W	H	D
LRJ02	0402	1.00 ± 0.05	0.50 ± 0.05	0.25 ± 0.10	0.30 ± 0.10
LRJ03	0603	1.50 ± 0.15	0.80 ± 0.15	0.42 ± 0.10	0.40 ± 0.10
LRJ05	0805	1.95 ± 0.15	1.20 ± 0.15	0.58 ± 0.10	0.55 ± 0.10
LRJ06	1206	3.10 ± 0.20	1.45 ± 0.20	0.45 ± 0.20	0.55 ± 0.20
LRJ20	2010	4.85 ± 0.20	2.50 ± 0.20	0.45 ± 0.20	0.75 ± 0.20
LRJ25	2512	6.20 ± 0.20	3.20 ± 0.20	0.60 ± 0.20	0.90 ± 0.20

ELECTRICAL CHARACTERISTICS

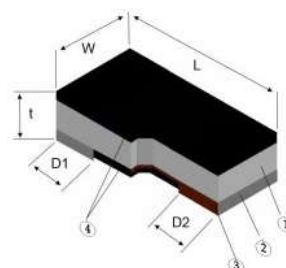
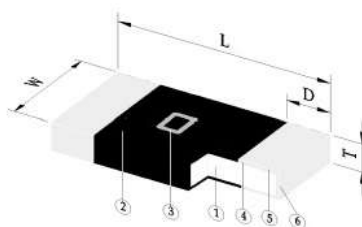
STYLE	LRJ02	LRJ03	LRJ05	RC06	RC20	RC25
Rated Current	20A	22.4A	31.6A	50A	71A	100A
Resistance Range	0.50m Ω Max			0.20m Ω Max		
Operating Temperature	-55°C ~ +155°C					

DERATING CURVE



CONSTRUCTION

LRJ06/LRJ20/LRJ25	
1	Alloy Plate
2	Overcoat
3	Marking
4	Internal Electrode
5	Barrier Layer
6	Solder Plating

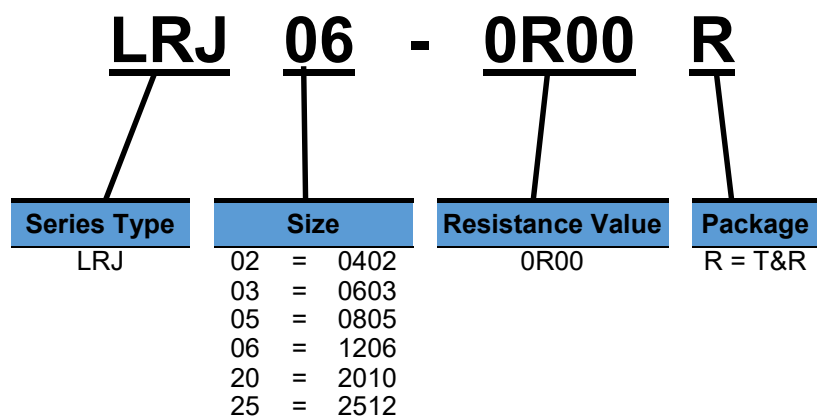


LRJ02/LRJ03/LRJ05	
1	Alumina Substrate
2	External Electrode
3	Resistor Layer
4	Overcoat
	No Marking

PERFORMANCE CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	SPECIFICATION
Variation of Resistance / Temperature	JIS C 5201-1 4.8	Maximum 0.5mΩ
Endurance	JIS C 5201-1 4.25 70°C ± 2°C, Rated current for 1000 hours, with 1.5 hours ON, and 0.5 hours OFF	Maximum 0.5mΩ
Short Time Overload	JIS C 5201-1 4.13 1.5x rated current for 2 seconds (LRJ02/06/20/25) 2.5x rated current for 5 seconds (LRJ03/05)	Maximum 0.5mΩ
Damp Heat	JIS C 5201-1 4.2 40°C ± 2°C, 90%~95% R.H. for 1000 hours	Maximum 0.5mΩ
Dry Heat	JIS C 5201-1 4.23 At +155°C for 1000 hours	Maximum 0.5mΩ
Bending Strength	JIS C 5201-1 4.33 Bending once for 60 seconds with 3mm	Maximum 0.5mΩ
Solderability	JIS C 5201-1 4.17 245°C ± 5°C for 3 seconds	95% Minimum Coverage
Resistance to Soldering Heat	JIS C 5202 6.10 260°C ± 5°C, 10 seconds	Maximum 0.5mΩ
Rapid Change of Temperature	JIS C 5202 7.4 -55°C to +125°C, 5 cycles	Maximum 0.5mΩ

PART NUMBER



STANDARD PACKAGING

TAPE	0402	10,000 pieces
	0603 ~ 1206	5,000 pieces
	2010 ~ 2512	4,000 pieces

Standard reel is 7"

Contact S-P International
for other reel sizes.

LEAD FREE

LRJ Series parts are
RoHS & REACH Compliant