HRJ Series

Features

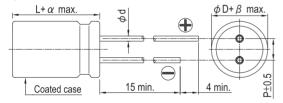
- 150°C, 1,000 hours assured
- · Low ESR and High ripple current
- · RoHS compliant

Marking color: Dark Green

Specifications

Specifications											
Items	Performance										
Category Temperature Range	-55°C ~ +150°C										
Capacitance Tolerance	±20% (at 120 Hz, 20°C)										
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F, V = rated DC working voltage in V										
Tanδ (at 120 Hz, 20°C)	See Standard Ratings										
	Impedance ratio shall not exceed the values given in the table below										
Low Temperature Characteristics (at 100k Hz)			R	ated Volt				63			
			Impedance	C)/Z(+20°C)	1.5	1.5	1.5	1.5			
			ratio	Z (-55°	C)/ Z(+20 ℃)	2.0	2.0	2.0	2.0		
Endurance			Test Time	1,000 Hrs							
		Ca	pacitance Ch	Within ±30% of initial value							
			Tanδ	Less than 200% of specified value							
			ESR	Less than 200% of specified value							
		L	eakage Curr	Within specified value							
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated										
	ripple current for 1,000 hours at 150℃.										
Shelf Life Test	* After storage for 1,000 hours at 150 ± 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the										
	limits specified in Endurance. (With voltage treatment)										
Resistance to Soldering Heat		Capacitance Change					Within ±10% of initial value				
			Tanδ		Within specified value						
		ES			Within specified value						
	ı		Leakage Current		Within specified value						
			U -								
D: 10 1	Frequency (Hz) $120 \le f < 1k$ $1k \le f < 10k$ $10k \le f < 100k$ $100k \le f < 500k$									7	
Ripple Current and Frequency Multipliers	Multi	, , ,			0.3	IUK	TUK :	0.6	100	1.0	-
1 requestey maniphore	Multi	hiiei	er 0.1		0.3	0.5		1.0	_		

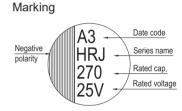
Diagram of Dimensions



ϕD 10 10 10 1 3.5 5.0 $\phi\,\mathrm{d}$ α 1.0

0.5

Lead Spacing and Diameter Unit: mm



Standard Ratings

Dimension: $\phi D \times L(mm)$ Ripple Current: mA/rms at 100k Hz, 150°C

Otanuaru i te	aurigs					Tripple Guiterit. IIIA/IIII3 at 100k 112, 130 G				
Rated Voltage (V)	Surge Voltage (V)	Capacitance (µF)	Size φ D×L (mm)	Tanδ (120 Hz, 20°C)	L C (μΑ)	E S R (mΩ/at 100kHz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 150°C)			
25V (1E) 28.8	20.0	150	8 × 10	0.14	37.5	27	800			
	20.0	270	10 × 10		67.5	20	1,000			
35V (1V) 40.3	40.3	100	8 × 10	0.12	35.0	30	770			
	40.3	150	10 × 10		52.5	23	950			
50V (1H) 57	57.5	56	8 × 10	0.10	28.0	35	700			
	57.5	100	10 × 10		50.0	28	900			
63V (1J)	72.5	33	8 × 10	0.08	20.8	40	650			
		56	10 × 10		35.3	30	840			

Part Numbering System

Gas Type **HRJ Series** ±20% 25V 150µF **Bulk Package** $8\phi \times 10L$ General Purpose

<u>1E</u> 0810 **HRJ** <u>151</u> M Lead Configuration Rated Rubber Capacitance Series Name Capacitance Case Size Application Tolerance Voltage Туре

Note: For more details, please refer to "Part Numbering System" on page 87.