

**Conductive Polymer Aluminum
Electrolytic Capacitors**
Surface Mount Type

JX series [High temperature long life product]



Features

- Endurance 125 °C 3000 h
- Damp heat 85°C 85% 1000 h
- Low ESR (9mΩ max.)
- RoHS compliance, Halogen free

Specifications

Series	JX	
Category temp. range	-55 °C to +125 °C	
Rated voltage range	2.0 V to 2.5 V	
Category voltage range	1.6 V to 2.0 V	
Rated cap. range	220 μF to 470 μF	
Capacitance tolerance	±20 % (120 Hz / +20 °C)	
DC leakage current	I ≤ 0.1 CV (μA) 2 minutes	
Dissipation factor (tan δ)	≤ 0.1 (120 Hz / + 20 °C)	
Surge voltage (V)	Rated voltage × 1.25 (15 °C to 35 °C)	
Endurance	+125 °C 3000 h, category voltage applied	
	Capacitance change	Within ±20 % of the initial value
	Dissipation factor (tan δ)	≤ 2 times of the initial limit
	DC leakage current	≤ 3 times of the initial limit
Damp heat (Steady state)	+85 °C, 85 % RH, 1000 h, No-applied voltage	
	Capacitance change of initial measured value	2.0 V to 2.5 V +70 %, -20 %
	Dissipation factor (tan δ)	≤ 2 times of the initial limit
	DC leakage current	≤ 5 times of the initial limit

Marking

Capacitance (μF) Polarity (Positive)

Lot No. R. voltage code 2D code *1

R. voltage code	Unit : V
d	2.0
e	2.5

*1: Internal management information

Dimensions (not to scale)

Series	L±0.2	W1±0.2	W2±0.1	H±0.1	P±0.3
JX	7.3	4.3	2.4	1.9	1.3

Unit : mm

* Externals of figure are the reference.

Characteristics list

Series	Rated voltage [105 °C] (V)	Category voltage [125 °C] (V)	Capacitance (μ F)	Case size (mm)			Specification		Part number	Min. Packaging Qty (pcs)
				L	W	H	Ripple current*1 (mA rms)	ESR*2 (m Ω max.)		
JX	2.0	1.6	330	7.3	4.3	1.9	6300	9	EEFJX0D331RE	3500
			470	7.3	4.3	1.9	6300	9	EEFJX0D471RE	3500
	2.5	2.0	220	7.3	4.3	1.9	6300	9	EEFJX0E221RE	3500
			330	7.3	4.3	1.9	6300	9	EEFJX0E331RE	3500
			390	7.3	4.3	1.9	6300	9	EEFJX0E391RE	3500

*1: Ripple current (100 kHz / +45 °C)

*2: ESR (100 kHz / +20 °C)

◆ Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".

Temperature coefficient of ripple current

Temperature		$T \leq 45 \text{ }^\circ\text{C}$	$45 \text{ }^\circ\text{C} < T \leq 85 \text{ }^\circ\text{C}$	$85 \text{ }^\circ\text{C} < T \leq 105 \text{ }^\circ\text{C}$	$105 \text{ }^\circ\text{C} < T \leq 125 \text{ }^\circ\text{C}$
2.0 V to 2.5 V	Coefficient	1.0	0.7	0.25	0.25

◆ Ripple current should be controlled so that surface temperature of capacitor does not exceed the category temperature.

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