Metallized Polypropylene Film Capacitors

Type: EZPE Series (Low profile type)

■Features

- High safety, Self-healing and Self-protecting function built-in
- ●Long product life, High reliability, High moisture resistance
- Low loss, Low ESR
- Flame retardant
- RoHS directive compliant
- Low profile design

Recommended Applications

- For DC filtering, DC link circuit
- Solar inverters, Micro inverters
- Wind power generation
- Industrial power supplies
- Inverter circuit in appliances (Air Conditioners etc.)

■Construction

- Dielectric : Polypropylene film
- Electrodes : Metallized dielectric with segmented pattern
- ●Plastic case : UL94 V-0
- •Sealing : UL94 V-0
- Terminals : Tinned wires,2-pin and 4-pin versions

Explanation of Part Numbers



■ Specifications

Category temperature range (Tc) (*1)	–40 °C to +85 °C							
Rated voltage(V_R) (*2)	450 VDC , 525 VDC (Derating of rated voltage by more than 70 °C (*3))							
Patad appacitance (CP)	450 VDC	66 µF						
Rated capacitance (CR)	525 VDC	29 µF						
Capacitance tolerance	±15 %							
Withstanding DC voltage	Between terminals : Rated voltage. (VDC)×150 % 10 s							
	Terminal to case: 2 000 VAC (50 Hz or 60 Hz) 10 s							
Insulation resistance (CR) CR \geq 10 000 $\Omega \cdot F$ (20 °C, 500 VDC, 60 s)								

*1: The temperature of capacitor surface (case)

*2: Use for DC voltage only

*3: Refer to the page of " DC voltage derating "



Plastic Film Capacitors / EZPE

■Dimensions in mm (not to scale)

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Rating, Dimensions & Quantity / Ammo Box

●Type EZPE Rated voltage : 450 VDC at 70 °C

Part No.	Cr. (µF)	Dimensions [mm]							Permissible current		ESR	Tanδ		MOO
		w	Н	L	P1	P2	φ	dv/dt [V/µs]	Peak Current [A _{o-p}] (※1)	RMS Current [A _{rms}] (※2)	[mΩ] (※3)	[%] (※4)	Mass [g]	[pcs] (※5)
EZPE45666MTB	66	90.0	24.0	32.5	27.5	37.5	0.8	5	300	15.0	5.0	0.3	110	200

●Type EZPE Rated voltage : 525 VDC at 70 °C

Part No.	0.5		Di	mensio	ns [m	ım]		dv/dt [V/µs]	Permissible current		FSR _{tre}	Tanō		MOQ
	Ск. (µF)	W	Н	L	P1	P2	φ		Peak Current [A _{o-p}] (※1)	RMS Current [A _{rms}] (※2)	[mΩ] (※3)	[%] (※4)	Mass [g]	[pcs] (※5)
EZPE52296MTB	29	48.5	23.5	37.0	34.0	20.3	0.8	14	400	3.0	7.0	0.4	50	400

*1: When rising temperature of capacitor surface by continuous peak current (included pulse current), use within limit specified for temperature of capacitor surface and self heating temperature rise.

*2: Maximum RMS current @ 70 °C, 10 kHz

Use within limit for self heating temperature rise at capacitor surface.

*3: Typical values @ 20 $\,^\circ\!C$, 10 kHz ESR : less than 2.5 × ESRtyp

*4: Maximum dissipation factor @20 °C, 1 kHz

*5: Minimum order quantity consists of 4 packing units.

Permissible Conditions

Permissible Voltage

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- These capacitors are designed only for DC voltage, so should not be used for AC line.
- · Use the peak voltage (V_{o-p}) within the rated voltage.
- Use the peak to peak voltage (V_{p-p}) within 0.2 x VR



●DC Voltage, Peak current and RMS current derating

Derating of voltage (V_{o-p}), RMS current (A_{rms}), and peak current (A_{o-p}) according to the following diagram, when the temperature of the capacitor surface exceeds 70°C.

Please refer to the approval sheet for DC voltage, RMS current, and Peak current.







•Total cycles applied current

Total cycles applied peak current (A_{o-p}) (including pulse current) are within following diagram.



■Characteristics <Reference>

•Temperature Characteristics

Panasonic









