Panasonic INDUSTRY

NEW

Plastic Film Capacitors

Metallized Polypropylene Film Capacitor

EZPR series



* This series does not include any safety function.

Features

- Long product life, High reliability
- Low loss, Low ESR, High current capability
- Flame retardant (Case and sealing resin)
- RoHS compliant

Construction

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

Construction

- Dielectric : Polypropylene film
- Electrodes : Metallized film
- Plastic case : UL94 V-0
- Sealing : UL94 V-0
- Terminals : Tinned wires, 2-pin and 4-pin versions

Explanation of part number

1	2	3	4	5	6	7	8	9	10	11	12
E	Z	P	R							D	
Product code			Dielectric & construction	Rated voltage		Capacitance			Pin type	Case type	Suffix

Code	R.voltage [DC]
60	600 V

Code	Pin type
L	2 Pin type
M	4 Pin type

Code	Suffix
2	37.5 mm pitch (For industrial & infrastructure)

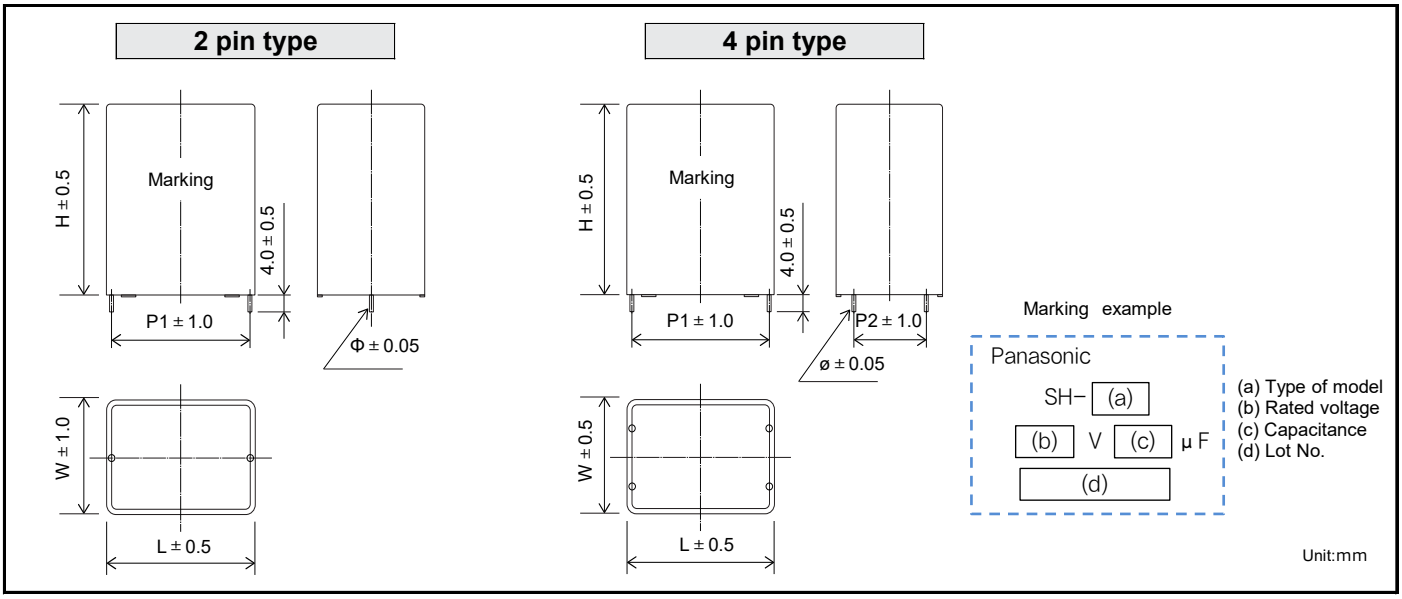
Specifications

Category temperature range (Including temperature-rise on unit surface)	−40 °C to +105 °C		
Upper limit temperature that can be used	The capacitor surface temperature should reduce voltage and current when exceeds 85 °C and is below 105 °C. (Refer to the derating by temperature graph on applicable specifications.)		
Rated voltage [DC]*1	600V (Rated voltage will be reduced if the temperature exceeds 85 °C)		
Capacitance range	600 V	Lead pitch : 37.5 mm	10 µF to 85 µF
Capacitance tolerance	±10% (J)		
Dissipation factor (tan δ)	tan δ ≤ 0.2 % (20 °C, 1 kHz)		
Withstand voltage	Between terminals : Rated voltage (V [DC]) × 150 % 60 s Terminal to case : 2000 V [AC] 10 s		
Insulation resistance (IR)	CR ≥ 3000 MΩ·µF (20 °C, 500 V [DC], 60 s)		

* Use for DC voltage only. Please do not use AC.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

Dimensions



Rating · Dimensions · Quantity

■ Rated voltage [DC]: 600 V, Capacitance tolerance: ±10 %(J)

Part No.	Cap. Tol. (%)	Cap. (μF)	Dimensions (mm)						dv/dt (V/μs)	Permissible current		Mass (g)	Min. order Q'ty*3 (PCS)
			W	H	L	P1	P2	ø		Peak current*1 ($A_{0\text{-}P}$)	RMS current*2 (A rms)		
EZPR60106LD2	±10	10	16.0	30.0	41.5	37.5	-	1.0	30	300	10.2	27	1600
EZPR60126LD2	±10	12	16.0	30.0	41.5	37.5	-	1.0	30	360	10.7	27	1600
EZPR60156LD2	±10	15	18.5	33.5	41.5	37.5	-	1.0	30	450	11.5	35	1280
EZPR60206MD2	±10	20	20.0	40.0	41.5	37.5	10.2	1.0	30	600	14.5	46	960
EZPR60226MD2	±10	22	20.0	40.0	41.5	37.5	10.2	1.0	30	660	15.4	45	960
EZPR60256MD2	±10	25	20.0	40.0	41.5	37.5	10.2	1.0	30	750	16.6	44	960
EZPR60306MD2	±10	30	24.0	44.0	41.5	37.5	10.2	1.0	30	900	18.5	58	800
EZPR60356MD2	±10	35	30.0	45.0	41.5	37.5	10.2	1.2	30	1050	21.7	75	640
EZPR60406MD2	±10	40	30.0	45.0	41.5	37.5	10.2	1.2	30	1200	24.5	74	640
EZPR60456MD2	±10	45	35.0	50.0	41.5	37.5	20.3	1.2	30	1350	27.2	96	400
EZPR60506MD2	±10	50	35.0	46.0	41.5	37.5	20.3	1.2	30	1500	29.8	87	400
EZPR60556MD2	±10	55	35.0	50.0	41.5	37.5	20.3	1.2	30	1650	30.6	96	400
EZPR60606MD2	±10	60	40.0	55.0	41.5	37.5	20.3	1.2	30	1800	31.4	122	400
EZPR60656MD2	±10	65	40.0	55.0	41.5	37.5	20.3	1.2	30	1950	32.2	120	400
EZPR60706MD2	±10	70	40.0	55.0	41.5	37.5	20.3	1.2	30	2100	33.0	118	400
EZPR60756MD2	±10	75	45.0	60.0	41.5	37.5	20.3	1.2	30	2250	33.7	151	320
EZPR60806MD2	±10	80	45.0	60.0	41.5	37.5	20.3	1.2	30	2400	34.4	149	320
EZPR60856MD2	±10	85	45.0	60.0	41.5	37.5	20.3	1.2	30	2550	35.1	145	320

*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 @ 85°C , 10kHz Use within limit for self heating temperature rise at capacitor surface.

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

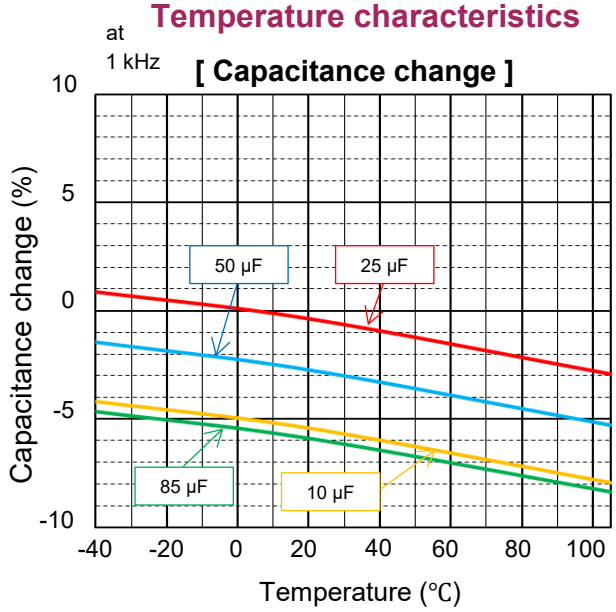
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Characteristics data

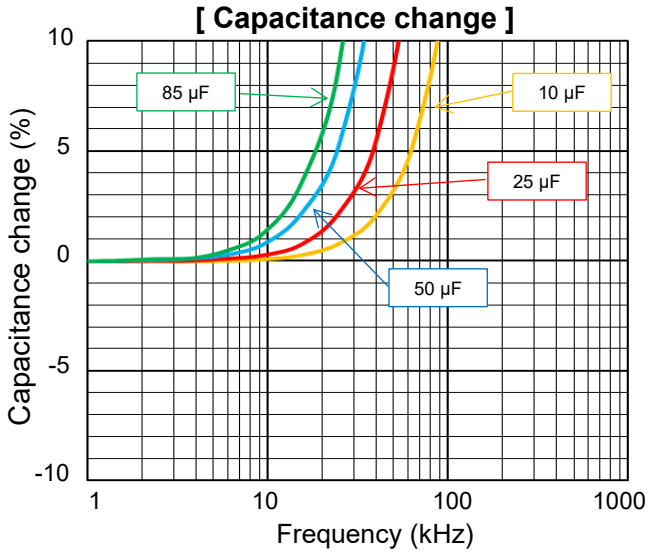
■ **Rated voltage [DC] : 600 V**

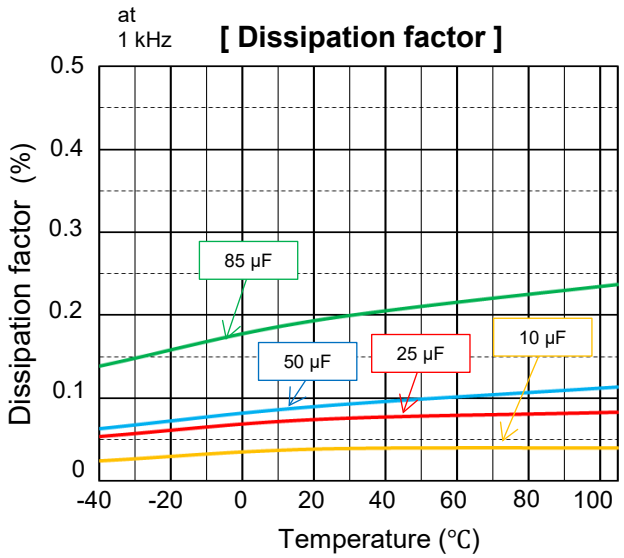
Electrical characteristics <Typical data >

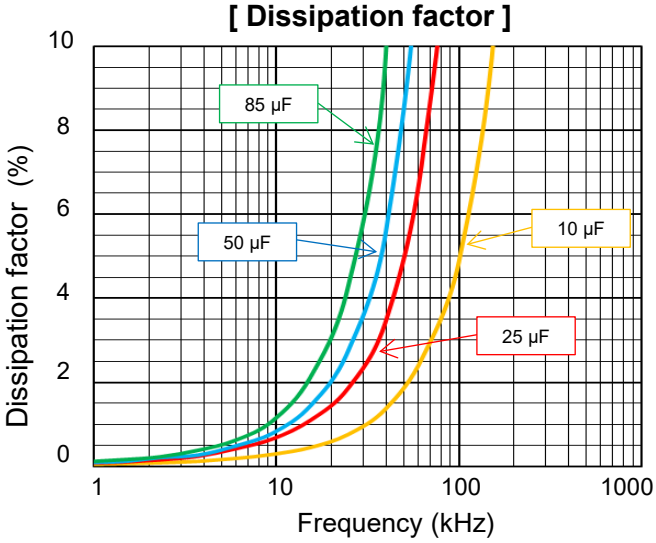
Temperature characteristics

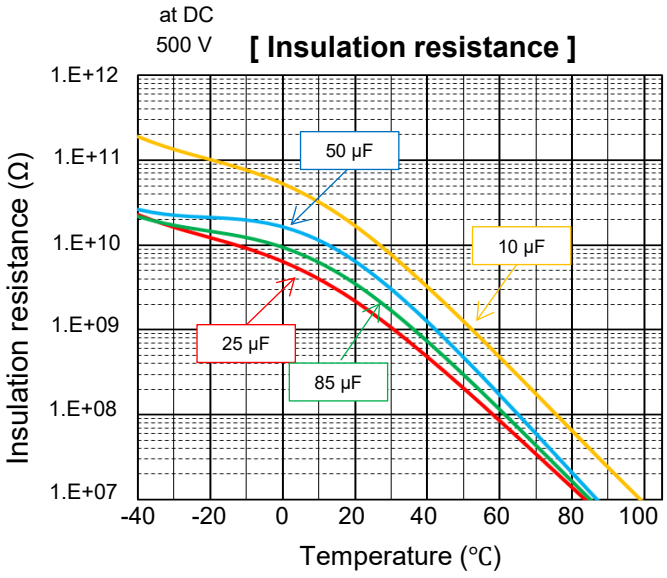


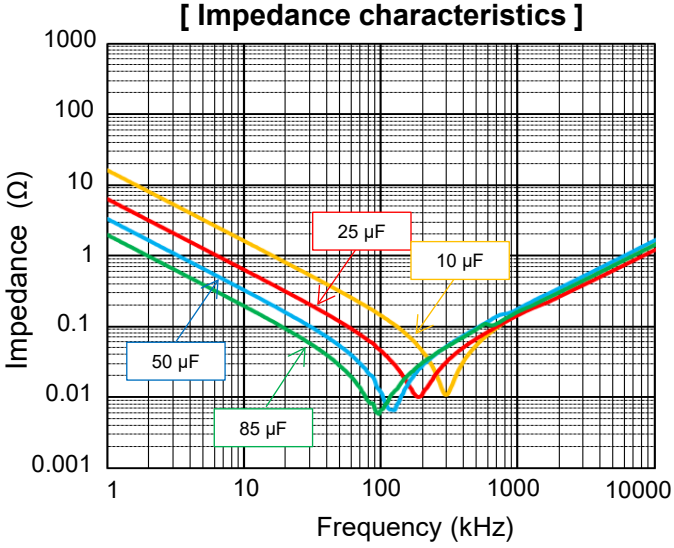
Frequency characteristics











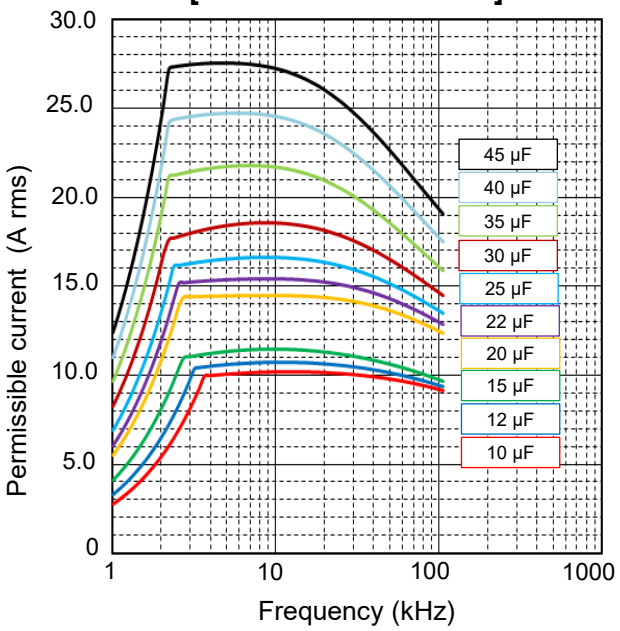
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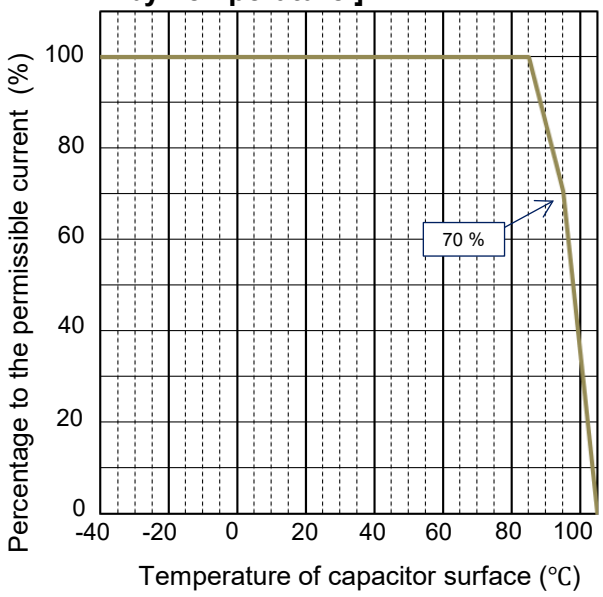
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Applicable specifications

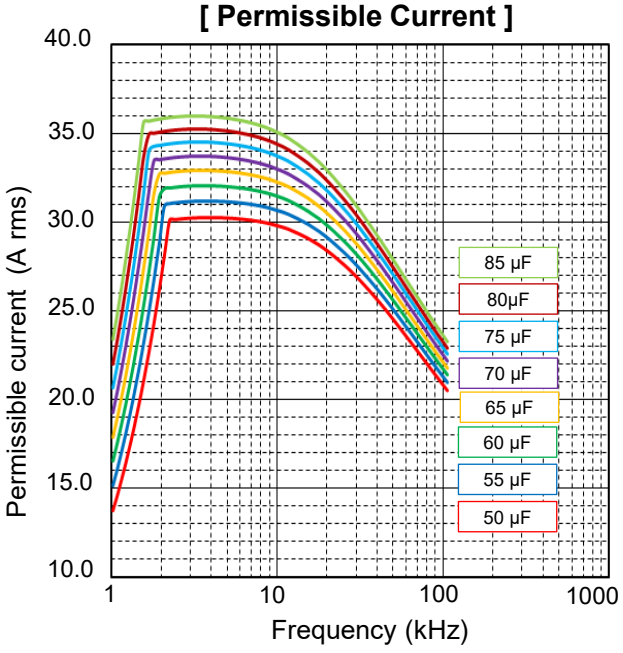
[Permissible Current]



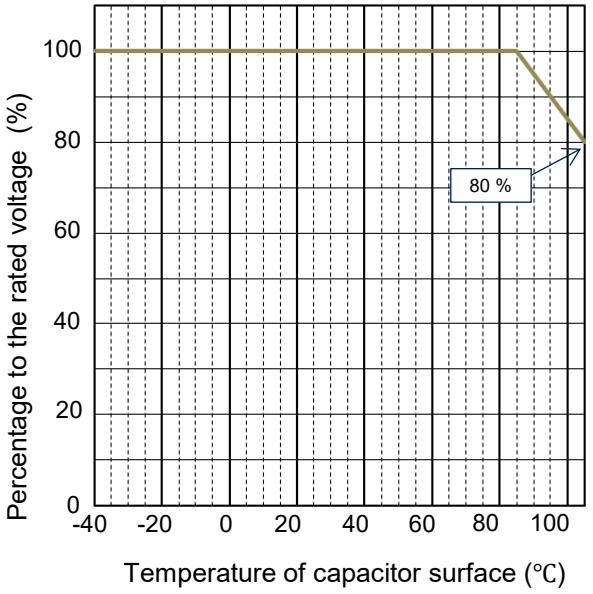
[Permissible Current Derating by Temperature]



[Permissible Current]



[Voltage Derating by Temperature]



Permissible pulse current (dV/dt) (Max. 10000 cycles)

R. voltage [DC] (V)	Capacitance (μF)	Code	dV/dt (V/μs)	Current (Ao-p)
600	10	106	30	300
	12	126		360
	15	156		450
	20	206		600
	22	226		660
	25	256		750
	30	306		900
	35	356		1050
	40	406		1200

R. voltage [DC] (V)	Capacitance (μF)	Code	dV/dt (V/μs)	Current (Ao-p)
600	45	456	30	1350
	50	506		1500
	55	556		1650
	60	606		1800
	65	656		1950
	70	706		2100
	75	756		2250
	80	806		2400
	85	856		2550

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