Panasonic INDUSTRY

NEW

Plastic Film Capacitors

Metallized Polypropylene Film Capacitor

EZPV-D series

Features

- High Safety (with safety function)
- Long product life, High reliability
- Low loss, Low ESR
- Flame retardant (Case and sealing resin)
- AEC-Q200 compliant (For automotive part No.)
- RoHS compliant

Recommended applications

- For DC filtering, DC link circuit
- Solar inverters
- Wind power generation
- Industrial power supplies
- Inverter circuit in appliances (Air Conditioners etc.)
- On board charger,AC/DC,DC/DC converter for automotive

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 number

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

Code	R.voltage [DC]
70	700 V
80	800 V

Code	Pin type
L	2 pin type
M	4 pin type

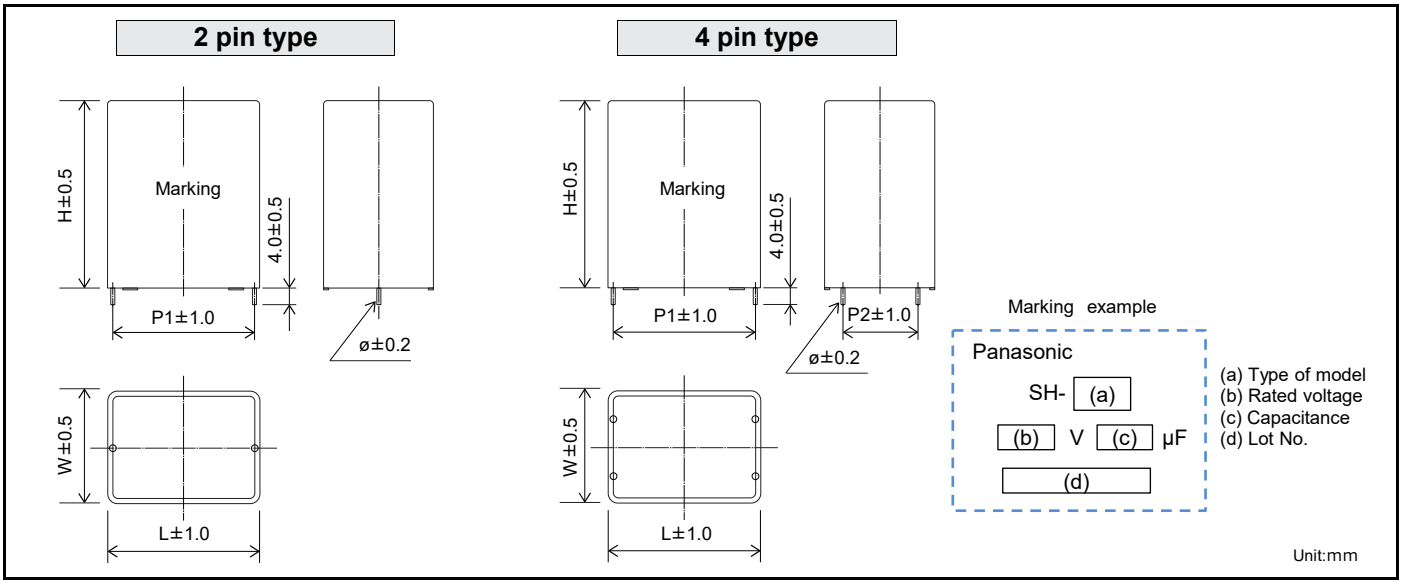
Code	Suffix
A	27.5 mm pitch (For industrial & infrastructure)
B	37.5 mm pitch (For industrial & infrastructure)
C	52.5 mm pitch (For industrial & infrastructure)
U	27.5 mm pitch (For automotive)
T	37.5 mm pitch (For automotive)
S	52.5 mm pitch (For automotive)

Specifications

Category temperature range*1	−40 °C to +105 °C	
Rated voltage*2 [DC]	600 V, 700 V, 800 V, 1000 V, 1100 V (Derating of rated voltage by 1.0 %/°C at more than 85 °C)	
Rated capacitance	700 V / 800 V	8 µF to 65 µF
Capacitance tolerance	±10 %	
Withstand voltage	Between terminals : Rated voltage (V) × 150 % 10 s Terminal to case : 2000 V [AC] 10 s	
Insulation resistance (IR)	CR ≥ 3,000 Ω・F (20 °C, 500 V, 60 s)	

*1 : The temperature of capacitor surface (case).
*2 : Use for DC voltage only.

Dimensions



Rating · Dimensions · Quantity

For industrial & infrastructure

■ Rated voltage [DC] : 700 V

Part No.	Cap. Tol. (%)	Cap. (µF)	Dimensions (mm)						dv/dt (V/µs)	Permissible current		ESR*3 (mΩ)	Mass (g)	Min. order Q'ty*4 (PCS)
			W	H	L	P1	P2	ø		Peak current*1 (A_{0-P})	RMS current*2 (A rms)			
EZPV70905LDA	±10	9	20.8	41.0	31.2	27.5	-	0.8	35	315	12.3	12.6	34	800
EZPV70905MDA	±10	9	20.8	41.0	31.2	27.5	10.2	0.8	35	315	12.3	12.6	34	800
EZPV70106LDA	±10	10	20.8	41.0	31.2	27.5	-	0.8	35	350	12.9	11.5	34	800
EZPV70106MDA	±10	10	20.8	41.0	31.2	27.5	10.2	0.8	35	350	12.9	11.5	34	800
EZPV70116LDA	±10	11	20.8	41.0	31.2	27.5	-	0.8	35	385	13.6	10.6	34	800
EZPV70116MDA	±10	11	20.8	41.0	31.2	27.5	10.2	0.8	35	385	13.6	10.6	34	800
EZPV70126LDA	±10	12	20.8	41.0	31.2	27.5	-	0.8	35	420	14.2	9.9	34	800
EZPV70126MDA	±10	12	20.8	41.0	31.2	27.5	10.2	0.8	35	420	14.2	9.9	34	800
EZPV70136LDA	±10	13	26.0	41.0	31.0	27.5	-	1.0	35	455	14.7	9.2	42	600
EZPV70136MDA	±10	13	26.0	41.0	31.0	27.5	10.2	1.0	35	455	14.7	9.2	43	600
EZPV70146LDA	±10	14	26.0	41.0	31.0	27.5	-	1.0	35	490	15.3	8.7	41	600
EZPV70146MDA	±10	14	26.0	41.0	31.0	27.5	10.2	1.0	35	490	15.3	8.7	40	600
EZPV70186LDA	±10	18	22.0	53.5	31.0	27.5	-	1.2	35	630	17.3	7.8	46	600
EZPV70186MDA	±10	18	22.0	53.5	31.0	27.5	10.2	1.2	35	630	17.3	7.8	47	600
EZPV70805LDB	±10	8	17.0	34.5	41.5	37.5	-	1.0	35	280	8.2	17.1	29	1200
EZPV70905LDB	±10	9	17.0	34.5	41.5	37.5	-	1.0	35	315	8.9	15.6	29	1200
EZPV70106LDB	±10	10	17.0	34.5	41.5	37.5	-	1.0	35	350	9.5	13.9	31	1200
EZPV70126LDB	±10	12	22.2	36.0	41.5	37.5	-	1.0	35	420	10.7	12.5	40	600
EZPV70156MDB	±10	15	22.2	36.0	41.5	37.5	10.2	1.0	35	525	13.0	10.2	40	600
EZPV70206MDB	±10	20	26.0	40.5	41.5	37.5	10.2	1.0	35	700	15.8	8.7	53	600
EZPV70256MDB	±10	25	30.0	50.5	41.5	37.5	10.2	1.0	35	875	18.3	8.7	78	400
EZPV70306MDB	±10	30	30.0	50.5	41.5	37.5	20.3	1.0	35	1050	20.6	7.1	77	400
EZPV70356MDB	±10	35	30.0	51.0	41.6	37.5	20.3	1.2	35	1225	22.7	5.5	84	400
EZPV70406MDB	±10	40	38.0	52.5	42.0	37.5	20.3	1.2	35	1400	24.6	5.1	105	400
EZPV70456MDB	±10	45	38.0	57.0	41.5	37.5	20.3	1.2	35	1575	26.4	4.5	107	400
EZPV70506MDB	±10	50	43.0	58.0	41.5	37.5	20.3	1.2	35	1750	28.2	4.8	124	400
EZPV70256MDC	±10	25	25.0	40.0	57.5	52.5	10.2	1.2	22	550	14.4	11.6	66	600
EZPV70306MDC	±10	30	30.0	51.0	57.5	52.5	10.2	1.2	22	660	16.8	11.6	105	200
EZPV70356MDC	±10	35	30.0	51.0	57.5	52.5	10.2	1.2	22	770	18.9	10.2	104	200
EZPV70406MDC	±10	40	30.0	51.0	57.5	52.5	20.3	1.2	22	880	20.9	9.1	99	200
EZPV70456MDC	±10	45	30.0	51.0	57.5	52.5	20.3	1.2	22	990	22.8	7.9	101	200
EZPV70506MDC	±10	50	30.0	51.0	57.5	52.5	20.3	1.2	22	1100	24.5	6.8	103	200
EZPV70556MDC	±10	55	30.0	51.0	57.5	52.5	20.3	1.2	22	1210	26.2	6.3	110	200
EZPV70606MDC	±10	60	35.0	56.0	57.5	52.5	20.3	1.2	22	1320	27.8	6.2	133	200
EZPV70656MDC	±10	65	35.0	56.0	57.5	52.5	20.3	1.2	22	1430	29.3	6.2	145	200

*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 , 10kHz Use within limit for self heating temperature rise at capacitor surface.
*3 : 20 °C, 10 kHz; however, this data is for reference only and does not guarantee the specifications of the product specifications.
*4 : Minimum order quantity consists of 4 packing units.

Rating · Dimensions · Quantity

For industrial & infrastructure

■ Rated voltage [DC] : 800 V

Part No.	Cap. Tol. (%)	Cap. (μF)	Dimensions (mm)						dv/dt (V/μs)	Permissible current		ESR*3 (mΩ)	Mass (g)	Min. order Q'ty*4 (PCS)
			W	H	L	P1	P2	ø		Peak current*1 (A_{0-P})	RMS current*2 (A rms)			
EZPV80905LDA	±10	9	20.8	41.0	31.2	27.5	-	0.8	35	315	12.3	12.6	34	800
EZPV80905MDA	±10	9	20.8	41.0	31.2	27.5	10.2	0.8	35	315	12.3	12.6	34	800
EZPV80106LDA	±10	10	20.8	41.0	31.2	27.5	-	0.8	35	350	12.9	11.5	34	800
EZPV80106MDA	±10	10	20.8	41.0	31.2	27.5	10.2	0.8	35	350	12.9	11.5	34	800
EZPV80116LDA	±10	11	20.8	41.0	31.2	27.5	-	0.8	35	385	13.6	10.6	34	800
EZPV80116MDA	±10	11	20.8	41.0	31.2	27.5	10.2	0.8	35	385	13.6	10.6	34	800
EZPV80126LDA	±10	12	20.8	41.0	31.2	27.5	-	0.8	35	420	14.2	9.9	34	800
EZPV80126MDA	±10	12	20.8	41.0	31.2	27.5	10.2	0.8	35	420	14.2	9.9	34	800
EZPV80136LDA	±10	13	26.0	41.0	31.0	27.5	-	1.0	35	455	14.7	9.2	42	600
EZPV80136MDA	±10	13	26.0	41.0	31.0	27.5	10.2	1.0	35	455	14.7	9.2	43	600
EZPV80146LDA	±10	14	26.0	41.0	31.0	27.5	-	1.0	35	490	15.3	8.7	41	600
EZPV80146MDA	±10	14	26.0	41.0	31.0	27.5	10.2	1.0	35	490	15.3	8.7	40	600
EZPV80186LDA	±10	18	22.0	53.5	31.0	27.5	-	1.2	35	630	17.3	7.8	46	600
EZPV80186MDA	±10	18	22.0	53.5	31.0	27.5	10.2	1.2	35	630	17.3	7.8	47	600
EZPV80805LDB	±10	8	17.0	34.5	41.5	37.5	-	1.0	35	280	8.2	17.1	29	1200
EZPV80905LDB	±10	9	17.0	34.5	41.5	37.5	-	1.0	35	315	8.9	15.6	29	1200
EZPV80106LDB	±10	10	17.0	34.5	41.5	37.5	-	1.0	35	350	9.5	13.9	31	1200
EZPV80126LDB	±10	12	22.2	36.0	41.5	37.5	-	1.0	35	420	10.7	12.5	40	600
EZPV80156MDB	±10	15	22.2	36.0	41.5	37.5	10.2	1.0	35	525	13.0	10.2	40	600
EZPV80206MDB	±10	20	26.0	40.5	41.5	37.5	10.2	1.0	35	700	15.8	8.7	53	600
EZPV80256MDB	±10	25	30.0	50.5	41.5	37.5	10.2	1.0	35	875	18.3	8.7	78	400
EZPV80306MDB	±10	30	30.0	50.5	41.5	37.5	20.3	1.0	35	1050	20.6	7.1	77	400
EZPV80356MDB	±10	35	30.0	51.0	41.6	37.5	20.3	1.2	35	1225	22.7	5.5	84	400
EZPV80406MDB	±10	40	38.0	52.5	42.0	37.5	20.3	1.2	35	1400	24.6	5.1	105	400
EZPV80456MDB	±10	45	38.0	57.0	41.5	37.5	20.3	1.2	35	1575	26.4	4.5	107	400
EZPV80506MDB	±10	50	43.0	58.0	41.5	37.5	20.3	1.2	35	1750	28.2	4.8	124	400
EZPV80256MDC	±10	25	25.0	40.0	57.5	52.5	10.2	1.2	22	550	14.4	11.6	66	600
EZPV80306MDC	±10	30	30.0	51.0	57.5	52.5	10.2	1.2	22	660	16.8	11.6	105	200
EZPV80356MDC	±10	35	30.0	51.0	57.5	52.5	10.2	1.2	22	770	18.9	10.2	104	200
EZPV80406MDC	±10	40	30.0	51.0	57.5	52.5	20.3	1.2	22	880	20.9	9.1	99	200
EZPV80456MDC	±10	45	30.0	51.0	57.5	52.5	20.3	1.2	22	990	22.8	7.9	101	200
EZPV80506MDC	±10	50	30.0	51.0	57.5	52.5	20.3	1.2	22	1100	24.5	6.8	103	200
EZPV80556MDC	±10	55	30.0	51.0	57.5	52.5	20.3	1.2	22	1210	26.2	6.3	110	200
EZPV80606MDC	±10	60	35.0	56.0	57.5	52.5	20.3	1.2	22	1320	27.8	6.2	133	200
EZPV80656MDC	±10	65	35.0	56.0	57.5	52.5	20.3	1.2	22	1430	29.3	6.2	145	200

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

*3 : 20 °C, 10 kHz; however, this data is for reference only and does not guarantee the specifications of the product specifications.

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

Rating · Dimensions · Quantity

For automotive

■ Rated voltage [DC] : 700 V

Part No.	Cap. Tol. (%)	Cap. (μF)	Dimensions (mm)						dv/dt (V/μs)	Permissible current		ESR*3 (mΩ)	Mass (g)	Min. order Q'ty*4 (PCS)
			W	H	L	P1	P2	ø		Peak current*1 (A_{0-P})	RMS current*2 (A rms)			
EZPV70905LDU	±10	9	20.8	41.0	31.2	27.5	-	0.8	35	315	12.3	12.6	34	800
EZPV70905MDU	±10	9	20.8	41.0	31.2	27.5	10.2	0.8	35	315	12.3	12.6	34	800
EZPV70106LDU	±10	10	20.8	41.0	31.2	27.5	-	0.8	35	350	12.9	11.5	34	800
EZPV70106MDU	±10	10	20.8	41.0	31.2	27.5	10.2	0.8	35	350	12.9	11.5	34	800
EZPV70116LDU	±10	11	20.8	41.0	31.2	27.5	-	0.8	35	385	13.6	10.6	34	800
EZPV70116MDU	±10	11	20.8	41.0	31.2	27.5	10.2	0.8	35	385	13.6	10.6	34	800
EZPV70126LDU	±10	12	20.8	41.0	31.2	27.5	-	0.8	35	420	14.2	9.9	34	800
EZPV70126MDU	±10	12	20.8	41.0	31.2	27.5	10.2	0.8	35	420	14.2	9.9	34	800
EZPV70136LDU	±10	13	26.0	41.0	31.0	27.5	-	1.0	35	455	14.7	9.2	42	600
EZPV70136MDU	±10	13	26.0	41.0	31.0	27.5	10.2	1.0	35	455	14.7	9.2	43	600
EZPV70146LDU	±10	14	26.0	41.0	31.0	27.5	-	1.0	35	490	15.3	8.7	41	600
EZPV70146MDU	±10	14	26.0	41.0	31.0	27.5	10.2	1.0	35	490	15.3	8.7	40	600
EZPV70186LDU	±10	18	22.0	53.5	31.0	27.5	-	1.2	35	630	17.3	7.8	46	600
EZPV70186MDU	±10	18	22.0	53.5	31.0	27.5	10.2	1.2	35	630	17.3	7.8	47	600
EZPV70805LDT	±10	8	17.0	34.5	41.5	37.5	-	1.0	35	280	8.2	17.1	29	1200
EZPV70905LDT	±10	9	17.0	34.5	41.5	37.5	-	1.0	35	315	8.9	15.6	29	1200
EZPV70106LDT	±10	10	17.0	34.5	41.5	37.5	-	1.0	35	350	9.5	13.9	31	1200
EZPV70126LDT	±10	12	22.2	36.0	41.5	37.5	-	1.0	35	420	10.7	12.5	40	600
EZPV70156MDT	±10	15	22.2	36.0	41.5	37.5	10.2	1.0	35	525	13.0	10.2	40	600
EZPV70206MDT	±10	20	26.0	40.5	41.5	37.5	10.2	1.0	35	700	15.8	8.7	53	600
EZPV70256MDT	±10	25	30.0	50.5	41.5	37.5	10.2	1.0	35	875	18.3	8.7	78	400
EZPV70306MDT	±10	30	30.0	50.5	41.5	37.5	20.3	1.0	35	1050	20.6	7.1	77	400
EZPV70356MDT	±10	35	30.0	51.0	41.6	37.5	20.3	1.2	35	1225	22.7	5.5	84	400
EZPV70406MDT	±10	40	38.0	52.5	42.0	37.5	20.3	1.2	35	1400	24.6	5.1	105	400
EZPV70456MDT	±10	45	38.0	57.0	41.5	37.5	20.3	1.2	35	1575	26.4	4.5	107	400
EZPV70506MDT	±10	50	43.0	58.0	41.5	37.5	20.3	1.2	35	1750	28.2	4.8	124	400
EZPV70256MDS	±10	25	25.0	40.0	57.5	52.5	10.2	1.2	22	550	14.4	11.6	66	600
EZPV70306MDS	±10	30	30.0	51.0	57.5	52.5	10.2	1.2	22	660	16.8	11.6	105	200
EZPV70356MDS	±10	35	30.0	51.0	57.5	52.5	10.2	1.2	22	770	18.9	10.2	104	200
EZPV70406MDS	±10	40	30.0	51.0	57.5	52.5	20.3	1.2	22	880	20.9	9.1	99	200
EZPV70456MDS	±10	45	30.0	51.0	57.5	52.5	20.3	1.2	22	990	22.8	7.9	101	200
EZPV70506MDS	±10	50	30.0	51.0	57.5	52.5	20.3	1.2	22	1100	24.5	6.8	103	200
EZPV70556MDS	±10	55	30.0	51.0	57.5	52.5	20.3	1.2	22	1210	26.2	6.3	110	200
EZPV70606MDS	±10	60	35.0	56.0	57.5	52.5	20.3	1.2	22	1320	27.8	6.2	133	200
EZPV70656MDS	±10	65	35.0	56.0	57.5	52.5	20.3	1.2	22	1430	29.3	6.2	145	200

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

*3 : 20 °C, 10 kHz; however, this data is for reference only and does not guarantee the specifications of the product specifications.

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

Rating · Dimensions · Quantity

For automotive

■ Rated voltage [DC] : 800 V

Part No.	Cap. Tol. (%)	Cap. (μF)	Dimensions (mm)						dv/dt (V/μs)	Permissible current		ESR*3 (mΩ)	Mass (g)	Min. order Q'ty*4 (PCS)
			W	H	L	P1	P2	ø		Peak current*1 ($A_{0\text{-}P}$)	RMS current*2 (A rms)			
EZPV80905LDU	±10	9	20.8	41.0	31.2	27.5	-	0.8	35	315	12.3	12.6	34	800
EZPV80905MDU	±10	9	20.8	41.0	31.2	27.5	10.2	0.8	35	315	12.3	12.6	34	800
EZPV80106LDU	±10	10	20.8	41.0	31.2	27.5	-	0.8	35	350	12.9	11.5	34	800
EZPV80106MDU	±10	10	20.8	41.0	31.2	27.5	10.2	0.8	35	350	12.9	11.5	34	800
EZPV80116LDU	±10	11	20.8	41.0	31.2	27.5	-	0.8	35	385	13.6	10.6	34	800
EZPV80116MDU	±10	11	20.8	41.0	31.2	27.5	10.2	0.8	35	385	13.6	10.6	34	800
EZPV80126LDU	±10	12	20.8	41.0	31.2	27.5	-	0.8	35	420	14.2	9.9	34	800
EZPV80126MDU	±10	12	20.8	41.0	31.2	27.5	10.2	0.8	35	420	14.2	9.9	34	800
EZPV80136LDU	±10	13	26.0	41.0	31.0	27.5	-	1.0	35	455	14.7	9.2	42	600
EZPV80136MDU	±10	13	26.0	41.0	31.0	27.5	10.2	1.0	35	455	14.7	9.2	43	600
EZPV80146LDU	±10	14	26.0	41.0	31.0	27.5	-	1.0	35	490	15.3	8.7	41	600
EZPV80146MDU	±10	14	26.0	41.0	31.0	27.5	10.2	1.0	35	490	15.3	8.7	40	600
EZPV80186LDU	±10	18	22.0	53.5	31.0	27.5	-	1.2	35	630	17.3	7.8	46	600
EZPV80186MDU	±10	18	22.0	53.5	31.0	27.5	10.2	1.2	35	630	17.3	7.8	47	600
EZPV80805LDT	±10	8	17.0	34.5	41.5	37.5	-	1.0	35	280	8.2	17.1	29	1200
EZPV80905LDT	±10	9	17.0	34.5	41.5	37.5	-	1.0	35	315	8.9	15.6	29	1200
EZPV80106LDT	±10	10	17.0	34.5	41.5	37.5	-	1.0	35	350	9.5	13.9	31	1200
EZPV80126LDT	±10	12	22.2	36.0	41.5	37.5	-	1.0	35	420	10.7	12.5	40	600
EZPV80156MDT	±10	15	22.2	36.0	41.5	37.5	10.2	1.0	35	525	13.0	10.2	40	600
EZPV80206MDT	±10	20	26.0	40.5	41.5	37.5	10.2	1.0	35	700	15.8	8.7	53	600
EZPV80256MDT	±10	25	30.0	50.5	41.5	37.5	10.2	1.0	35	875	18.3	8.7	78	400
EZPV80306MDT	±10	30	30.0	50.5	41.5	37.5	20.3	1.0	35	1050	20.6	7.1	77	400
EZPV80356MDT	±10	35	30.0	51.0	41.6	37.5	20.3	1.2	35	1225	22.7	5.5	84	400
EZPV80406MDT	±10	40	38.0	52.5	42.0	37.5	20.3	1.2	35	1400	24.6	5.1	105	400
EZPV80456MDT	±10	45	38.0	57.0	41.5	37.5	20.3	1.2	35	1575	26.4	4.5	107	400
EZPV80506MDT	±10	50	43.0	58.0	41.5	37.5	20.3	1.2	35	1750	28.2	4.8	124	400
EZPV80256MDS	±10	25	25.0	40.0	57.5	52.5	10.2	1.2	22	550	14.4	11.6	66	600
EZPV80306MDS	±10	30	30.0	51.0	57.5	52.5	10.2	1.2	22	660	16.8	11.6	105	200
EZPV80356MDS	±10	35	30.0	51.0	57.5	52.5	10.2	1.2	22	770	18.9	10.2	104	200
EZPV80406MDS	±10	40	30.0	51.0	57.5	52.5	20.3	1.2	22	880	20.9	9.1	99	200
EZPV80456MDS	±10	45	30.0	51.0	57.5	52.5	20.3	1.2	22	990	22.8	7.9	101	200
EZPV80506MDS	±10	50	30.0	51.0	57.5	52.5	20.3	1.2	22	1100	24.5	6.8	103	200
EZPV80556MDS	±10	55	30.0	51.0	57.5	52.5	20.3	1.2	22	1210	26.2	6.3	110	200
EZPV80606MDS	±10	60	35.0	56.0	57.5	52.5	20.3	1.2	22	1320	27.8	6.2	133	200
EZPV80656MDS	±10	65	35.0	56.0	57.5	52.5	20.3	1.2	22	1430	29.3	6.2	145	200

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

*3 : 20 °C, 10 kHz; however, this data is for reference only and does not guarantee the specifications of the product specifications.

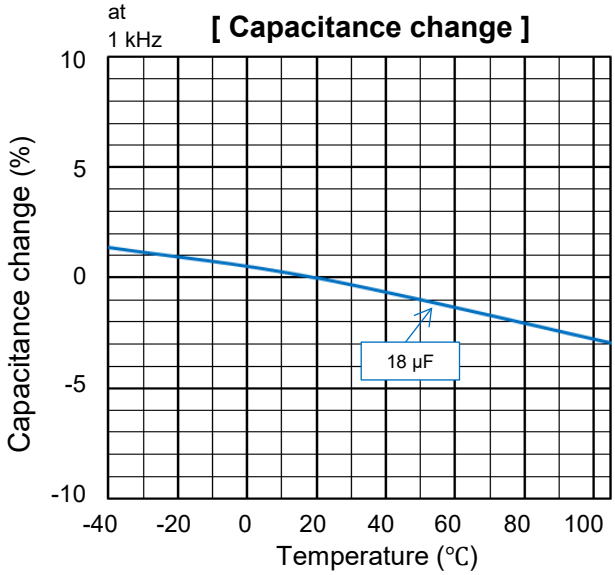
*4 : Minimum order quantity consists of 4 packing units.

Characteristics data

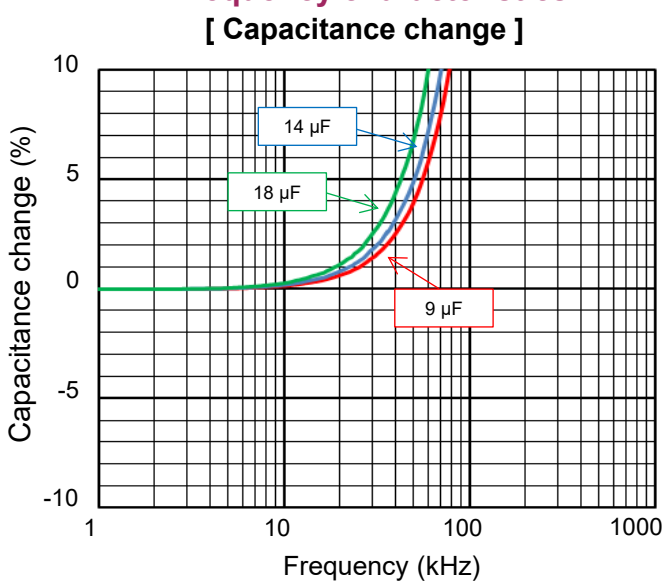
■ **Rated voltage [DC] : 700 V / 800 V (Lead pitch 27.5 mm)**

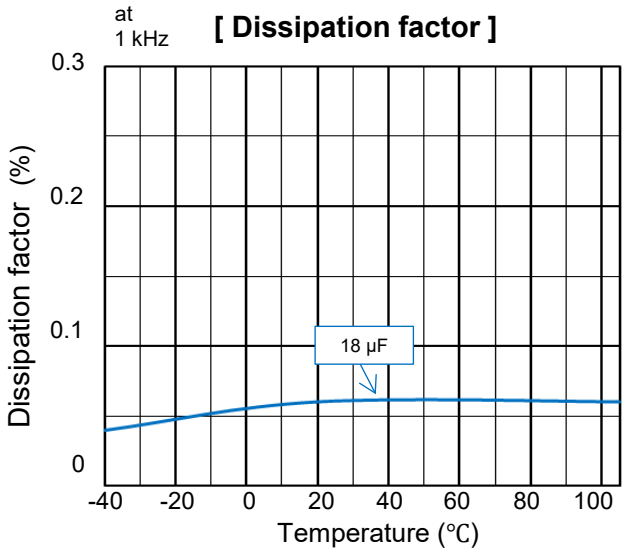
Electrical characteristics <Typical data >

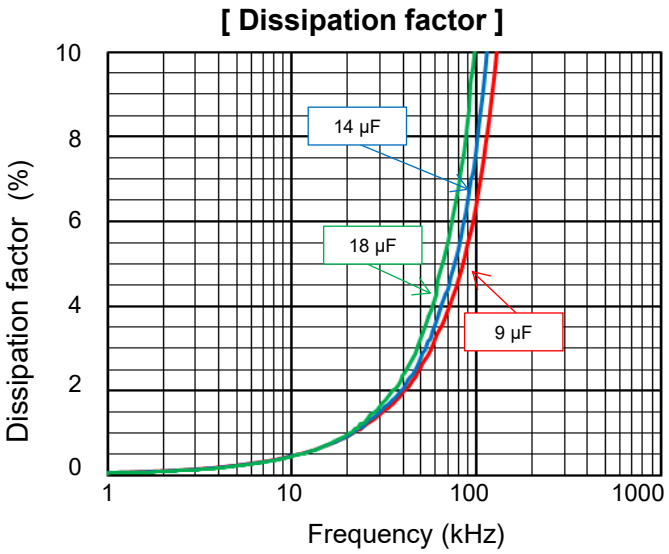
Temperature characteristics

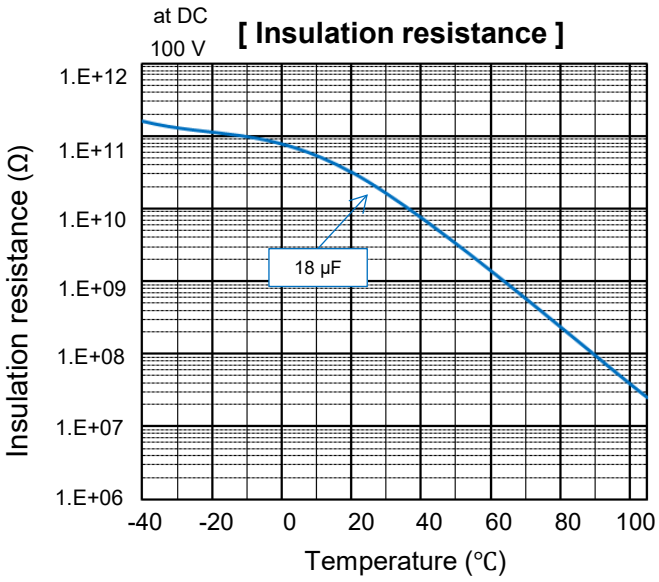


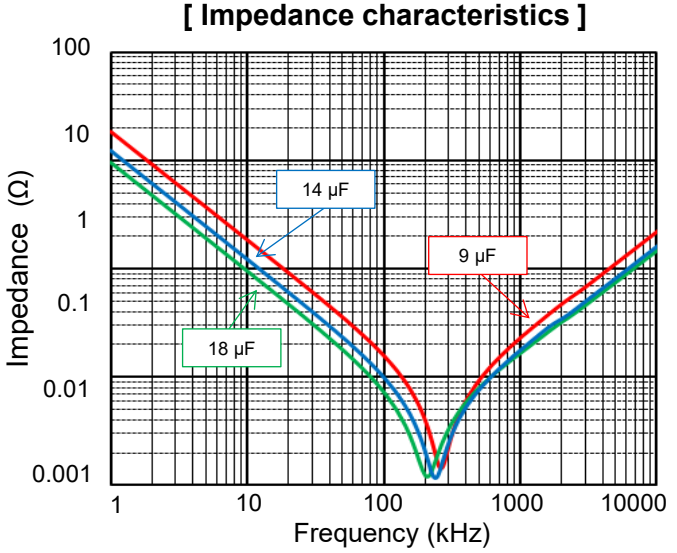
Frequency characteristics









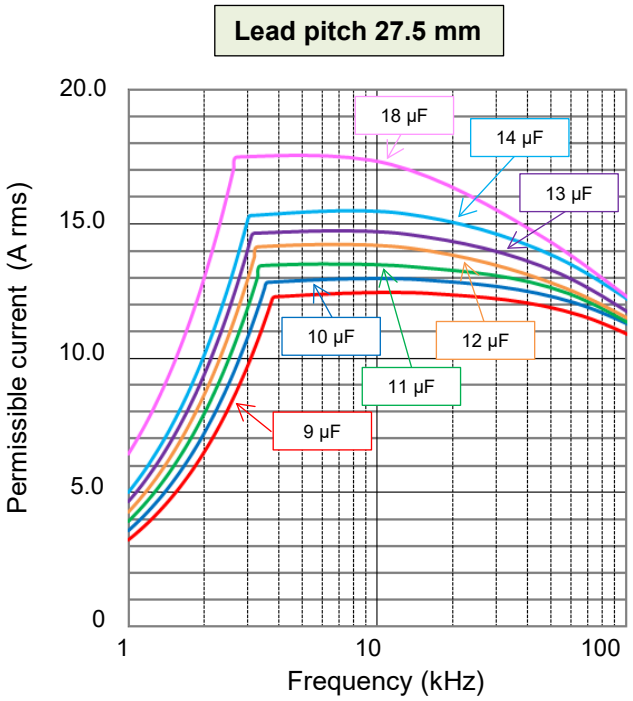


Characteristics data

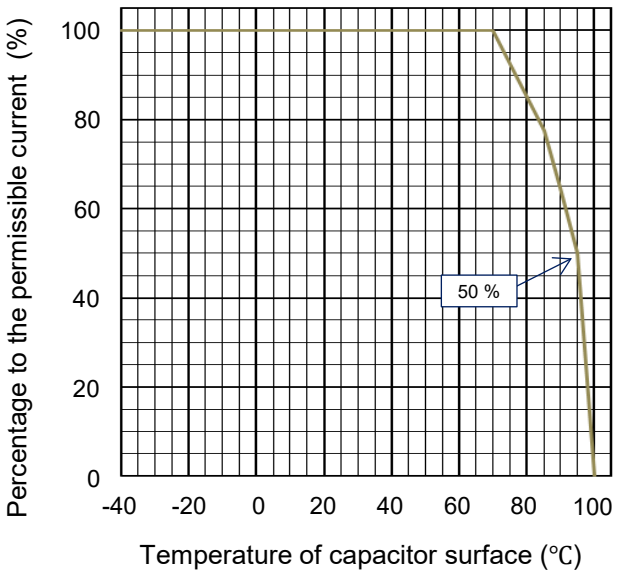
■ **Rated voltage [DC] : 700 V / 800 V (Lead pitch 27.5 mm)**

Applicable specifications

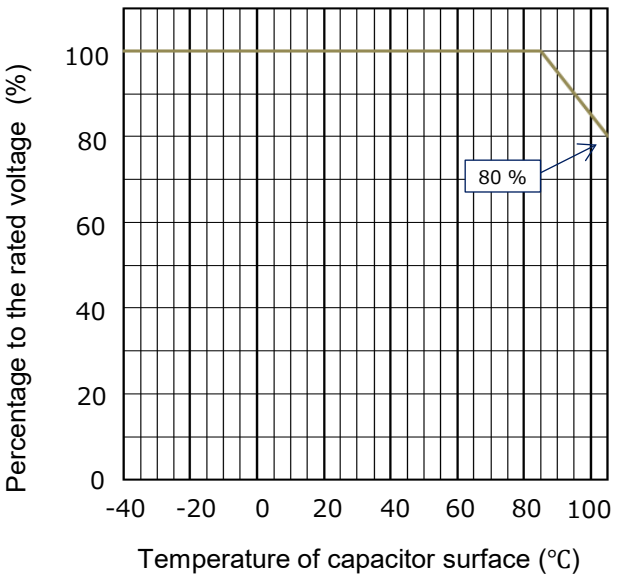
[Permissible Current]



[Permissible Current Derating by Temperature]



[Voltage Derating by Temperature]



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

R. voltage [DC] (V)	Pitch (mm)	Capacitance (μF)	Code	dV/dt (V/μs)	Current (Ao-p)
700 / 800	27.5	9.0	905	35	315.0
		10.0	106		350.0
		11.0	116		385.0
		12.0	126		420.0
		13.0	136		455.0
		14.0	146		490.0
		18.0	186		630.0

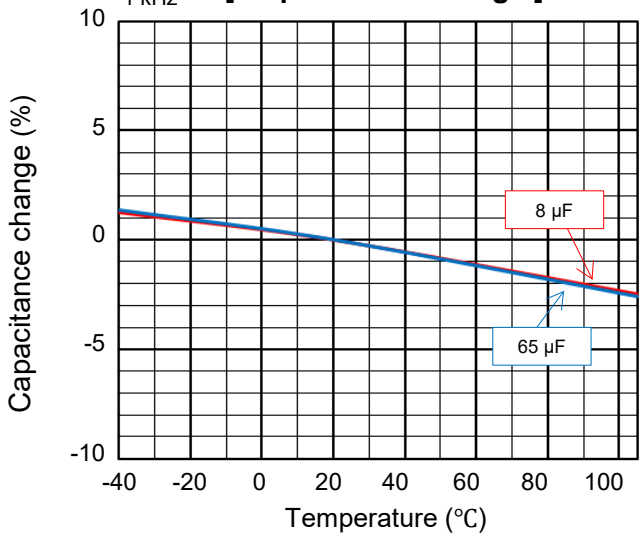
Characteristics data

■ **Rated voltage [DC] : 700 V / 800 V (Lead pitch 37.5 / 52.5 mm)**

Electrical characteristics <Typical data >

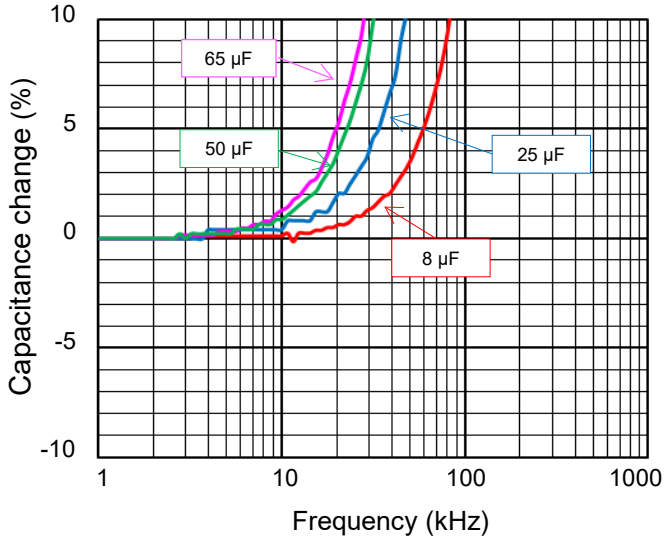
Temperature characteristics

at 1 kHz [Capacitance change]

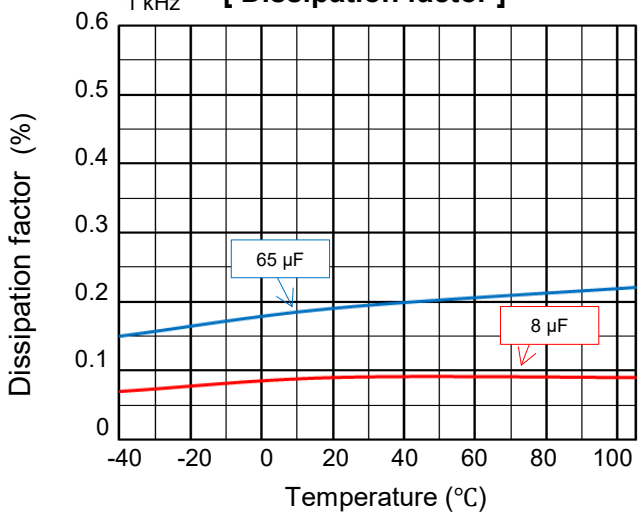


Frequency characteristics

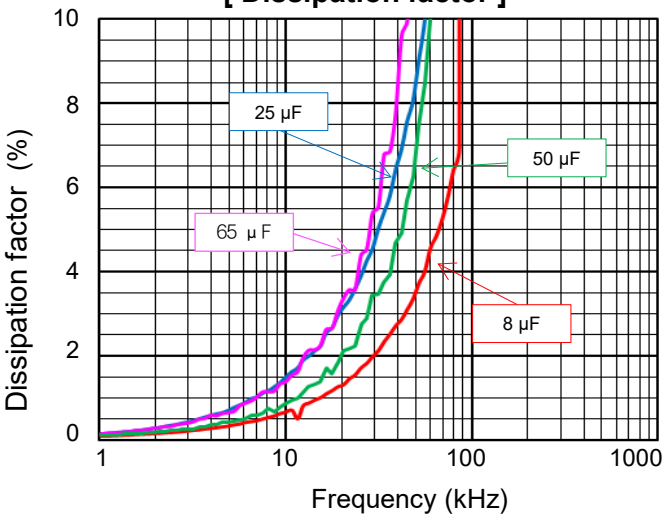
[Capacitance change]



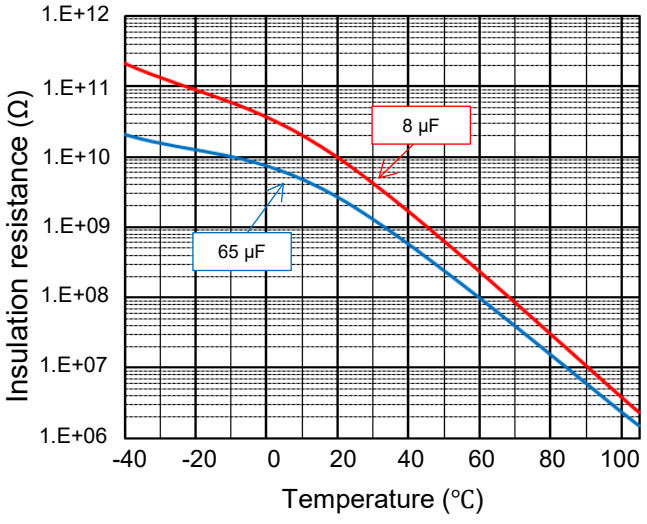
at 1 kHz [Dissipation factor]



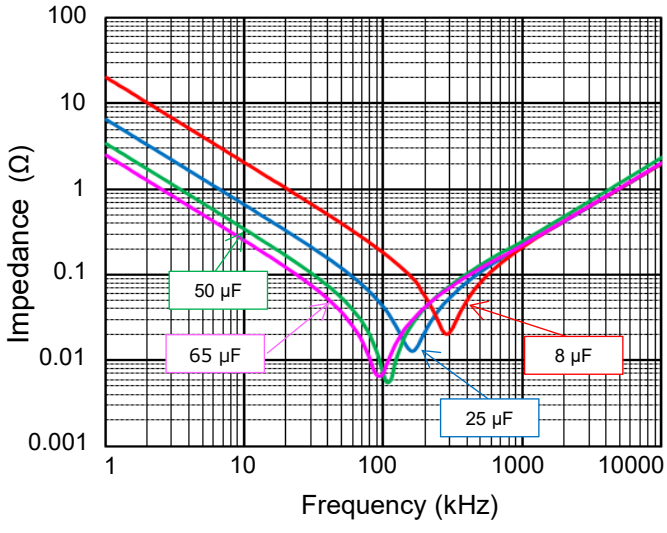
[Dissipation factor]



at DC 100 V [Insulation resistance]



[Impedance characteristics]



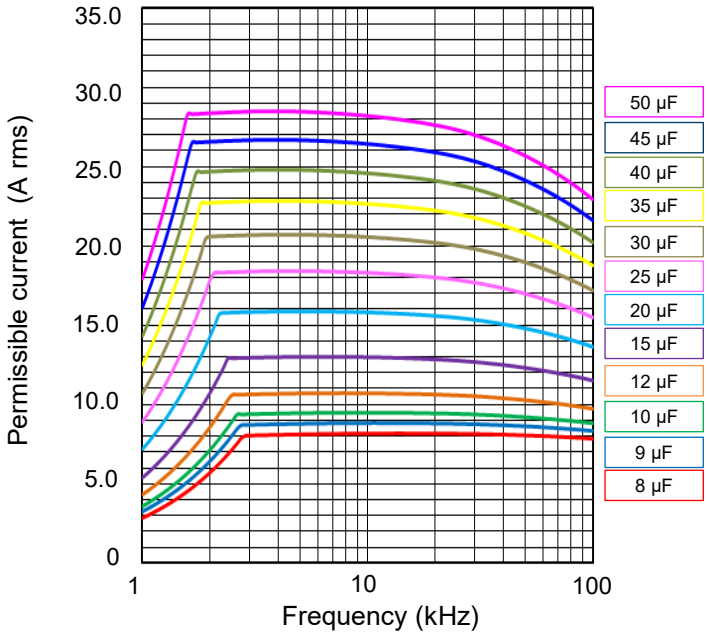
Characteristics data

■ **Rated voltage [DC] : 700 V / 800 V (Lead pitch 37.5 / 52.5 mm)**

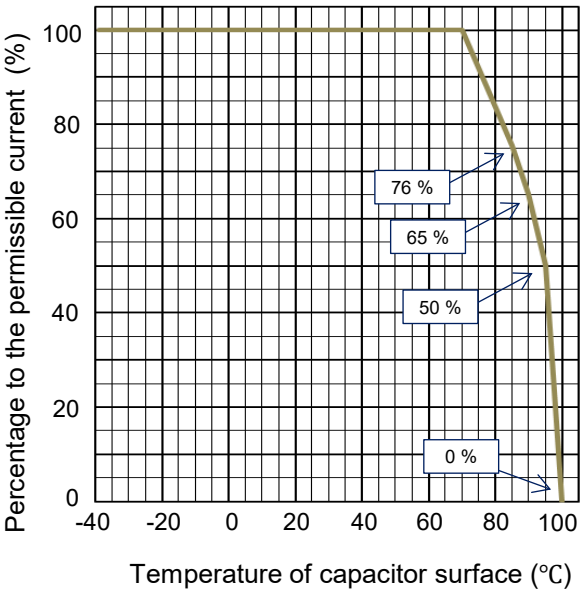
Applicable specifications

[Permissible Current]

Lead pitch 37.5 mm

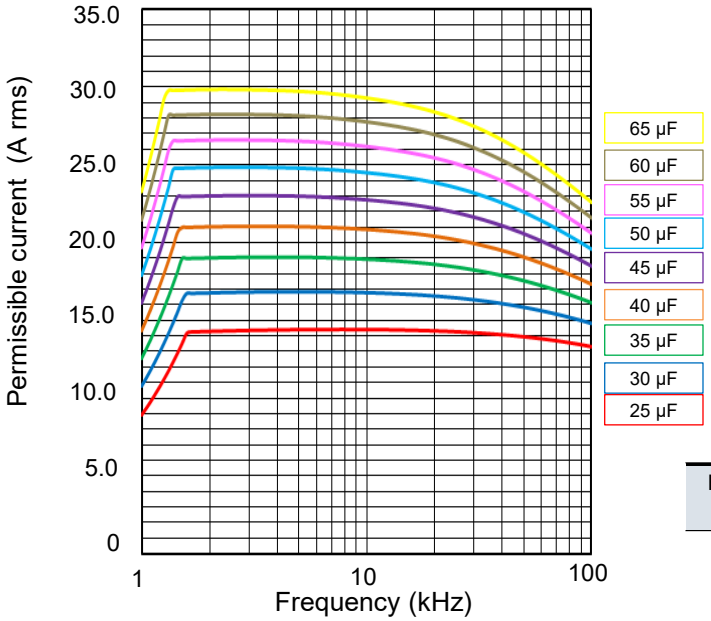


[Permissible Current Derating by Temperature]

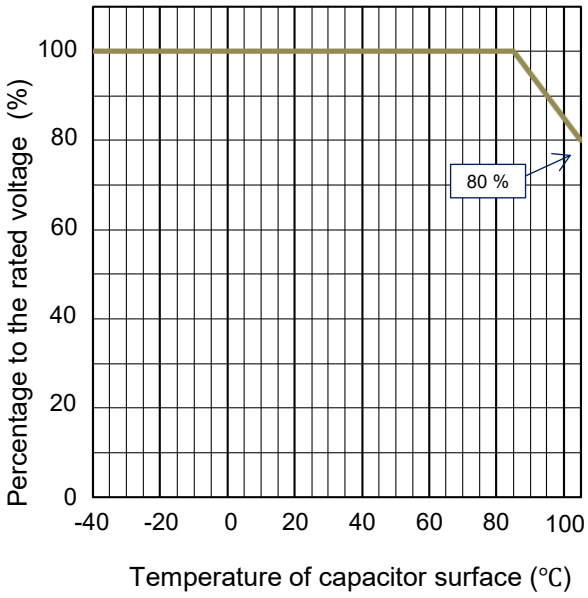


[Permissible Current]

Lead pitch 52.5 mm



[Voltage Derating by Temperature]



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

R. voltage [DC] (V)	Pitch (mm)	Capacitance (μF)	Code	dV/dt (V/μs)	Current (Ao-p)
700 / 800	37.5	8.0	805	35	280.0
		20.0	206		700.0
		30.0	306		1050.0
		40.0	406		1400.0
		50.0	506		1750.0
	52.5	25.0	256	22	550.0
		35.0	356		770.0
		50.0	506		1100.0
		65.0	656		1430.0

Safety and Legal Matters to Be Observed

Product specifications and applications

■ Please be advised that this product and product specifications are subject to change without notice for improvement purposes. Therefore, please request and confirm the latest delivery specifications that explain the specifications in detail before the final design, or purchase or use of the product, regardless of the application. In addition, do not use this product in any way that deviates from the contents of the company's delivery specifications.

■ Unless otherwise specified in this catalog or the product specifications, this product is intended for use in general electronic equipment (AV products, home appliances, commercial equipment, office equipment, information and communication equipment, etc.).
When this product is used for the following special cases, the specification document suited to each application shall be signed/sealed (with Panasonic Industry and the user) in advance..These include applications requiring special quality and reliability, wherein their failures or malfunctions may directly threaten human life or cause harm to the human body (e.g.: space/aircraft equipment, transportation/traffic equipment, combustion equipment, medical equipment, disaster prevention/crime prevention equipment, safety equipment, etc.).

Safety design and product evaluation

■ Please ensure safety through protection circuits, redundant circuits, etc., in the customer's system design so that a defect in our company's product will not endanger human life or cause other serious damage.

■ This catalog shows the quality and performance of individual parts. The durability of parts varies depending on the usage environment and conditions. Therefore, please ensure to evaluate and confirm the state of each part after it has been mounted in your product in the actual operating environment before use.
If you have any doubts about the safety of this product, then please notify us immediately, and be sure to conduct a technical review including the above protection circuits and redundant circuits at your company.

Laws / Regulations / Intellectual property

■ The transportation of dangerous goods as designated by UN numbers, UN classifications, etc., does not apply to this product. In addition, when exporting products, product specifications, and technical information described in this catalog, please comply with the laws and regulations of the countries to which the products are exported, especially those concerning security export control.

■ Each model of this product complies with the RoHS Directive (Restriction of the use of hazardous substances in electrical and electronic equipment) (2011/65/EU and (EU) 2015/863). The date of compliance with the RoHS Directive and REACH Regulation varies depending on the product model.
Further, if you are using product models in stock and are not sure whether or not they comply with the RoHS Directive or REACH Regulation, please contact us by selecting "Sales Inquiry" from the inquiry form.

■ During the manufacturing process of this product and any of its components and materials to be used, Panasonic Industry does not intentionally use ozone-depleting substances stipulated in the Montreal Protocol and specific bromine-based flame retardants such as PBBs (Poly-Brominated Biphenyls) / PBDEs (Poly-Brominated Diphenyl Ethers). In addition, the materials used in this product are all listed as existing chemical substances based on the Act on the Regulation of Manufacture and Evaluation of Chemical Substances.

■ With regard to the disposal of this product, please confirm the disposal method in each country and region where it is incorporated into your company's product and used.

■ The technical information contained in this catalog is intended to show only typical operation and application circuit examples of this product. This catalog does not guarantee that such information does not infringe upon the intellectual property rights of Panasonic Industry or any third party, nor imply that the license of such rights has been granted.

■ Design, materials, or process related to technical owned by Panasonic Industry are subject to change without notice.

Panasonic Industry will assume no liability whatsoever if the use of our company's products deviates from the contents of this catalog or does not comply with the precautions. Please be advised of these restrictions.

Matters to Be Observed When Using This Product
(Film capacitor : Automotive/Industrial)

Response to anomalies and handling conditions

■ Because the capacitor described herein is made of a combustible material, it may generate smoke or even ignite when exposed to excessive heat. We therefore recommend you cover the capacitor with a fire-resistant material or fire-resistant case.

■ When a different component in the same circuit has short-circuited or developed an open failure, see to it that a voltage or current higher than the rated voltage or current or excessive heat is not applied to the capacitor.

Reliability

A capacitor conforming to "AEC-Q200" refers to a capacitor having passed some or all of evaluation test items defined in AEC-Q200.
To know the detailed specifications of each capacitor or specific evaluation test scores, please contact us.
We issue a delivery specification sheet for each product ordered. Please confirm the delivery specification sheet when you place an order with us.

Reference information

Guidelines

Before using the capacitor, make sure to acquire our delivery specification sheet and confirm service conditions.
If you find measurement values exceeding specified values in the specification sheet or have any question, feel free to contact us. We also advise you to refer to RCR-1001B "Safety Application Guide on Components for Use in Electronic and Electrical Equipment" and JEITA RCR-2350D "Safety Application Guide for Fixed Plastic Film Capacitors for Use in Electronic Equipment."

Intellectual property

Panasonic Group provides customers with safe products and services. We are also making great efforts to protect our intellectual property rights for Panasonic Group products. Typical patents related to this product are as follows. (Hybrid type)

[U.S. patent]
USP Nos. 7027286, 8315031, 8861177, 9240279, 10475585

[Japanese patent]
Japanese Patent No. 4784464, 4930099, 4946618, 5391797