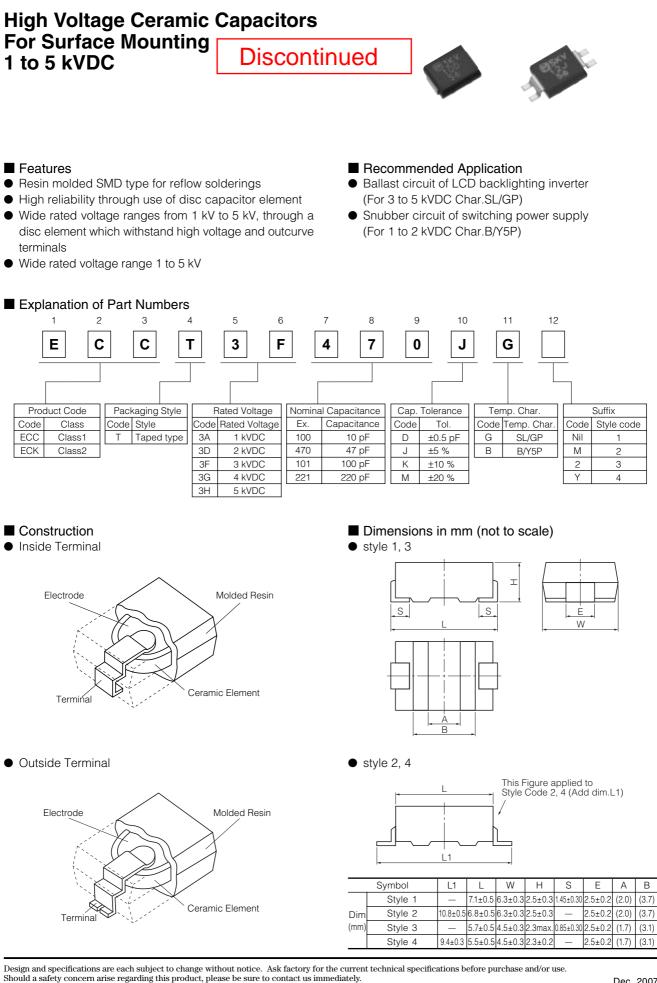
## **Panasonic**



### Specifications

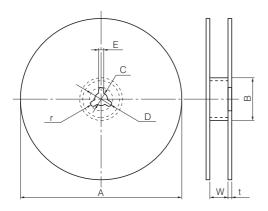
Characteristics		Char. SL/GP		Char. B/Y5P
Operating Temperature Range			–25 to	105 °C
Rated Voltage	2 to 3 kVDC	4 to 5 kVDC	5 kVDC	1 to 2 kVDC
Dielectric	200 % of Rated Voltage	150 % of Rated Voltage	120 % of Rated Voltage	200 % of Rated Voltage
Withstanding Voltage	for 1 to 5 seconds	for 1 to 5 seconds	for 1 to 5 seconds	for 1 to 5 seconds
Capacitance	Within the spec at 1 MHz±20 %			Within the specified tolerance, when measured at 1 kHz±20 %, 1 to 5 Vrms. and 20 °C
	30 pF or under over 30 pF at 1 MHz±20 %	Q ≧ 1000	,	tan <i>δ</i> ≦ 0.025 at 1 kHz±20 %,1 to 5 Vrms. and 20 °C
Insulation Resistance	10000 M $\Omega$ min	. at 500 VDC an	d 1 minute elect	rification
Temperature Characteristics		pefficient: 1000 ppm/ °C ture Range : 20		Max. Cap. Change:±10 % (Temperature Range : -25 to 85 °C)

## Packaging Methods (Taping)

Minimum Quantity/Packing Unit

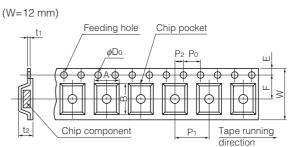
Туре	Packaging Style	Part Number		Minimum Packing Quantity	Packing Quantity in Carton	Carton Dimensions in mm L×W×H
1 to 5 kVDC (style 1)	Embossed Carrier Taping		5 to 470 pF	2000 pcs./reel	6000 pcs.	350×350×62
5 kVDC (style 2)	Embossed Carrier Taping	ЕССТЗНОСОМ	5 to 27 pF	2000 pcs./reel	4000 pcs.	350×350×62
4 kVDC (style 3)	Embossed Carrier Taping	ECCT3G□□□JG2	10 to 27 pF	3000 pcs./reel	9000 pcs.	350×350×62
5 kVDC (style 4)	Embossed Carrier Taping	ECCT3HDDDDY	5 to 15 pF	3000 pcs./reel	6000 pcs.	350×350×62

### Reel

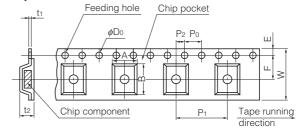


### Embossed Carrier Taping

style 1, 3, 4



style 2



Unit·(mm)

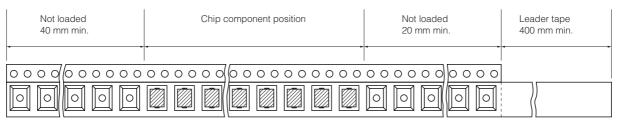
								U	nit:(mm)
5	Symbol	Α	В	С	D	E	W	t	r
i	style 1, 3						13.5±1.5		
Dim. (mm)	style 2	330±5	60 min.	13.0±0.5	21.0±1.0	2.0±0.5	25.5±1.5	2.0±0.5	R1.0
(((((((((((((((((((((((((((((((((((((((	style 4						17.5±1.5		

											Uni	t:(mm)
Syr	mbol	А	В	W	F	Е	P1	P2	Po	øD∘	t1	t2
	style1	6.5 ±0.2	7.5 ±0.2	12.0 ±0.3	5.5 ±0.1	1.75 ±0.10	8.0 ±0.1	2.0 ±0.1	4.0 ±0.1	1.5 +0.1 -0	0.3 ±0.1	3.2 ±0.3
	style2	6.65 ±0.20	11.2 ±0.2	24.0 ±0.3	11.5 ±0.1	1.75 ±0.10	12.0 ±0.1	2.0 ±0.1	4.0 ±0.1	1.5 +0.1 -0	0.3 ±0.1	3.2 ±0.3
(mm)	style3	4.8 ±0.2	6.0 ±0.2	12.0 ±0.3	5.5 ±0.1	1.75 ±0.10	8.0 ±0.1	2.0 ±0.1	4.0 ±0.1	1.5 +0.1 -0	0.3 ±0.1	2.8 ±0.3
	style4	4.7 ±0.2	10.0 ±0.5	16.0 ±0.3	7.5 ±0.1	1.75 ±0.10	8.0 ±0.1	2.0 ±0.1	4.0 ±0.1	1.5 +0.1 -0	0.3 ±0.1	2.85 ±0.30

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# Panasonic

## • Leader Part and Taped End



--- Tape running direction

## Ratings and Characteristics

#### • Rated Voltage 1 to 5 kVDC

Rated Voltage	Part Number	Capacitance (pF)	Cap. Tolerance (%)	Temp. Char	Style		
	ECCT3H050DGM	5	±0.5 pF	SL/GP			
	ECCT3H100JGM	10	±5	SL/GP			
	ECCT3H120JGM	12	±5	SL/GP			
	ECCT3H150JGM	15	±5	SL/GP	Style 2		
	ECCT3H180JGM	18	±5	SL/GP			
5 kVDC	ECCT3H220JGM	22	±5	SL/GP			
JRVDC	ECCT3H270JGM	27	±5	SL/GP			
	ECCT3H050DGY	5	±0.5 pF	SL/GP			
	ECCT3H080DGY	8	±0.5 pF	SL/GP			
	ECCT3H100JGY	10	±5	SL/GP	Style 4		
	ECCT3H120JGY	12	±5	SL/GP			
	ECCT3H150JGY	15	±5	SL/GP			
	ECCT3G100DG2	10	±0.5 pF	SL/GP			
	ECCT3G120JG2	12	±5	SL/GP			
	ECCT3G150JG2	15	±5	SL/GP	Style 2		
	ECCT3G180JG2	18	±5	SL/GP	Style 3		
4 kVDC	ECCT3G220JG2	22	±5	SL/GP			
	ECCT3G270JG2	27	±5	SL/GP			
	ECCT3G330JG	33	±5	SL/GP			
	ECCT3G390JG	39	±5	SL/GP	Style 1		
	ECCT3G470JG	47	±5	SL/GP			
	ECCT3F100DG2	10	±0.5 pF	SL/GP			
	ECCT3F120JG2	12	±5	SL/GP			
	ECCT3F150JG2	15	±5	SL/GP			
	ECCT3F180JG2	18	±5	SL/GP	Style 3		
3 kVDC	ECCT3F220JG2	22	±5	SL/GP			
3 KVDC	ECCT3F270JG2	27	±5	SL/GP			
	ECCT3F330JG2	33	±5	SL/GP			
	ECCT3F390JG	39	±5	SL/GP			
	ECCT3F470JG	47	±5	SL/GP			
	ECCT3F560JG	56	±5	SL/GP			
	ECCT3D680JG	68	±5	SL/GP			
	ECKT3D101KB	100	±10	B/Y5P			
	ECKT3D121KB	120	±10	B/Y5P			
2 kVDC	ECKT3D151KB	150	±10	B/Y5P	Style 1		
ZKVDU	ECKT3D181KB	180	±10	B/Y5P			
	ECKT3D221KB	220	±10	B/Y5P			
	ECKT3D271KB	270	±10	B/Y5P			
	ECKT3D331KB	330	±10	B/Y5P			
	ECKT3A391KB	390	±10	B/Y5P			
1 kVDC	ECKT3A471KB	470	±10	B/Y5P			

Notes \* This part number indicates taped type.

\* Capacitance 9 pF or under is available by special order.

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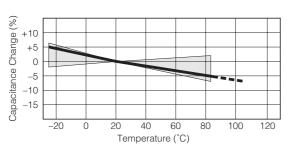
## Panasonic

Typical Characteristics

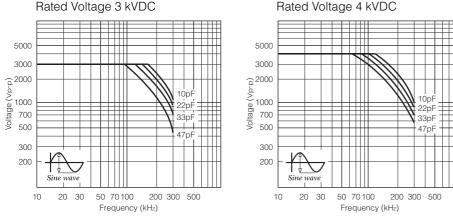
Temperature Characteristics

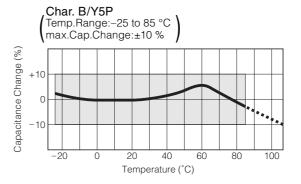
### Char. SL/GP



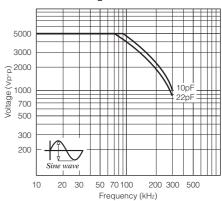


Characteristics of Voltage-Frequency

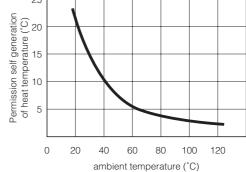




#### Rated Voltage 5 kVDC

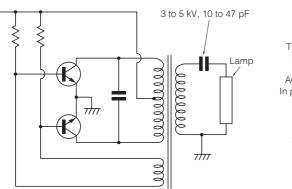


The graphs above show the maximum permissable voltage when using a capacitor with an AC sine wave voltage. When measuring this voltage in room temperature (25 °C), the capacitor self-heat generation will rise a maximum of 20 °C. When using a pulse voltage or an AC voltage other than a sine

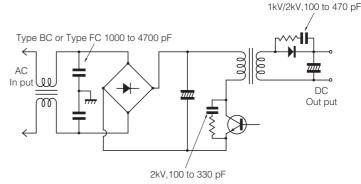


when using a capacitor with an AC sine wave voltage. When measuring this voltage in room temperature (25 °C), the capacitor self-heat generation will rise a maximum of 20 °C. When using a pulse voltage or an AC voltage other than a sine wave, confirm that the capacitor self-heat generation is less than 20 °C in an ambient room temperature of 25 °C. The self-heat generation temperature is the difference between the surface temperature and the ambient room temperature. As for the situation when the self-heat generation temperature is more than 25 °C, refer to the figure on the right.





#### Primary circuit and Snubber circuit of Switching Power Supply



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