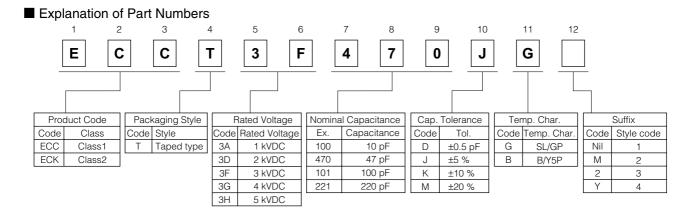
High Voltage Ceramic Capacitors For Surface Mounting 1 to 5 kVDC



Features

- Resin molded SMD type for reflow solderings
- High reliability through use of disc capacitor element
- Wide rated voltage ranges from 1 kV to 5 kV, through a disc element which withstand high voltage and outcurve terminals
- Wide rated voltage range 1 to 5 kV

- Recommended Application
- Ballast circuit of LCD backlighting inverter (For 3 to 5 kVDC Char.SL/GP)
- Snubber circuit of switching power supply (For 1 to 2 kVDC Char.B/Y5P)



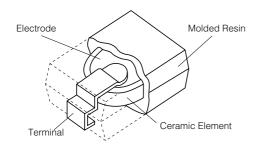
Construction

• Inside Terminal

Outside Terminal

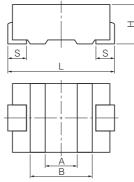
Electrode

Termina



Dimensions in mm (not to scale)

• style 1, 3



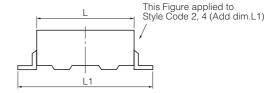








• style 2, 4



	Symbol	L1	L	W	Н	S	Е	А	В
	Style 1	_	7.1±0.5	6.3±0.3	2.5±0.3	1.45±0.30	2.5±0.2	(2.0)	(3.7)
Dim	Style 2	10.8±0.5	6.8±0.5	6.3±0.3	2.5±0.3	_	2.5±0.2	(2.0)	(3.7)
(mm)	Style 3	_	5.7±0.5	4.5±0.3	2.3max.	0.85±0.30	2.5±0.2	(1.7)	(3.1)
	Style 4	9.4±0.3	5.5±0.5	4.5±0.3	2.3±0.2		2.5±0.2	(1.7)	(3.1)

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Molded Resin

Ceramic Element

Specifications

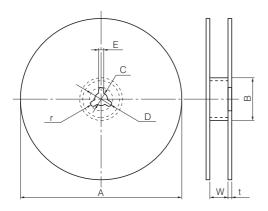
Characteristics		Char. SL/GP		Char. B/Y5P
Operating Temperature Range			–25 to	105 °C
Rated Voltage	2 to 3 kVDC	4 to 5 kVDC	5 kVDC	1 to 2 kVDC
Dielectric	200 % of Rated Voltage	150 % of Rated Voltage	120 % of Rated Voltage	200 % of Rated Voltage
Withstanding Voltage	for 1 to 5 seconds	for 1 to 5 seconds	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 Ω 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

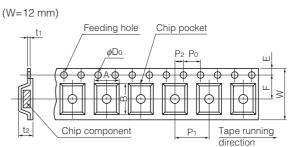
Туре	Packaging Style	Part Number		Minimum Packing Quantity	Packing Quantity in Carton	Carton Dimensions in mm L×W×H
1 to 5 kVDC (style 1)	Embossed Carrier Taping		5 to 470 pF	2000 pcs./reel	6000 pcs.	350×350×62
5 kVDC (style 2)	Embossed Carrier Taping	ЕССТЗНОСОМ	5 to 27 pF	2000 pcs./reel	4000 pcs.	350×350×62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

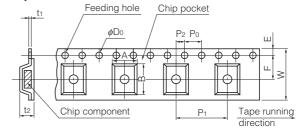


Embossed Carrier Taping

style 1, 3, 4



style 2



Unit·(mm)

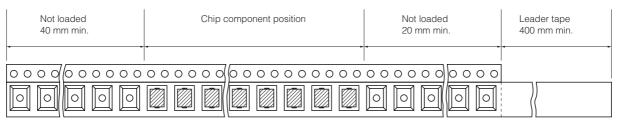
								U	nit:(mm)
5	Symbol	Α	В	С	D	Е	W	t	r
i	style 1, 3						13.5±1.5		
Dim. (mm)	style 2	330±5	60 min.	13.0±0.5	21.0±1.0	2.0±0.5	25.5±1.5	2.0±0.5	R1.0
(((((((((((((((((((((((((((((((((((((((style 4						17.5±1.5		

											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
Dim.	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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• 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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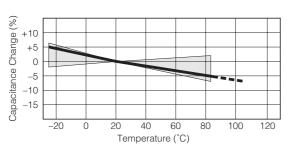
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Typical Characteristics

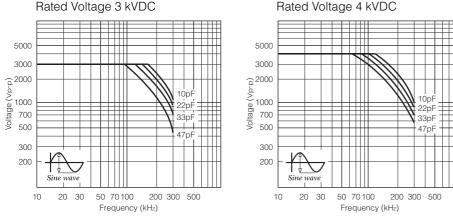
Temperature Characteristics

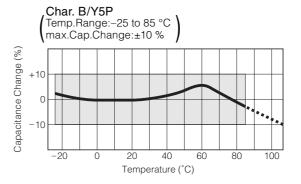
Char. SL/GP



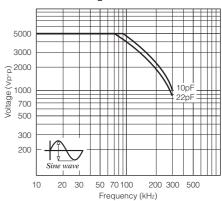


Characteristics of Voltage-Frequency

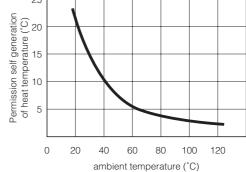




Rated Voltage 5 kVDC

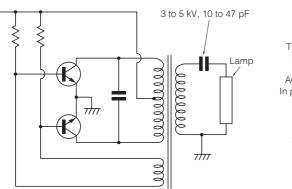


The graphs above show the maximum permissable voltage when using a capacitor with an AC sine wave voltage. When measuring this voltage in room temperature (25 °C), the capacitor self-heat generation will rise a maximum of 20 °C. When using a pulse voltage or an AC voltage other than a sine

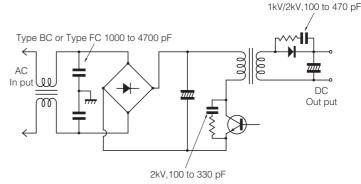


when using a capacitor with an AC sine wave voltage. When measuring this voltage in room temperature (25 °C), the capacitor self-heat generation will rise a maximum of 20 °C. When using a pulse voltage or an AC voltage other than a sine wave, confirm that the capacitor self-heat generation is less than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