

Specifications

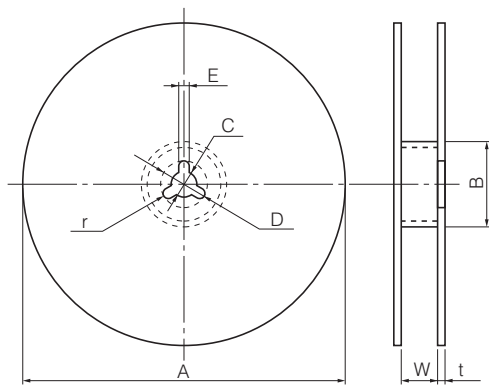
Characteristics	Char. SL/GP			Char. B/Y5P
Operating Temperature Range	-25 to 105 °C			
Rated Voltage	2 to 3 kVDC	4 to 5 kVDC	5 kVDC	1 to 2 kVDC
Dielectric Withstanding Voltage	200 % of Rated Voltage for 1 to 5 seconds	150 % of Rated Voltage for 1 to 5 seconds	120 % of Rated Voltage for 1 to 5 seconds	200 % of Rated Voltage for 1 to 5 seconds
Capacitance	Within the specified tolerance, when measured at 1 MHz±20 %, 1 to 5 Vrms. and 20 °C			Within the specified tolerance, when measured at 1 kHz±20 %, 1 to 5 Vrms. and 20 °C
Q or Dissipation Factor (tan δ)	30 pF or under Q ≥ 400+20 C (C:Cap.pF) over 30 pF Q ≥ 1000 at 1 MHz±20 %, 1 to 5 Vrms. and 20 °C			tan δ ≤ 0.025 at 1 kHz±20 %, 1 to 5 Vrms. and 20 °C
Insulation Resistance	10000 M Ω min. at 500 VDC and 1 minute electrification			
Temperature Characteristics	Temperature Coefficient: +350 to -1000 ppm/ °C (Temperature Range : 20 to 85 °C)			Max. Cap. Change:±10 % (Temperature Range : -25 to 85 °C)

Packaging Methods (Taping)

Minimum Quantity/Packing Unit

Type	Packaging Style	Part Number		Minimum Packing Quantity	Packing Quantity in Carton	Carton Dimensions in mm LxWxH
1 to 5 kVDC (style 1)	Embossed Carrier Taping	EC□T3□□□□□□	5 to 470 pF	2000 pcs./reel	6000 pcs.	350×350×62
5 kVDC (style 2)	Embossed Carrier Taping	ECCT3H□□□□□M	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	ECCT3H□□□□□Y	5 to 15 pF	3000 pcs./reel	6000 pcs.	350×350×62

Reel



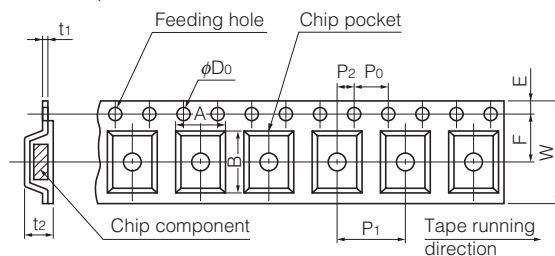
Unit:(mm)

Symbol	A	B	C	D	E	W	t	r
Dim. (mm)								
style 1, 3	330±5	60 min.	13.0±0.5	21.0±1.0	2.0±0.5	13.5±1.5	2.0±0.5	R1.0
style 2						25.5±1.5		
style 4						17.5±1.5		

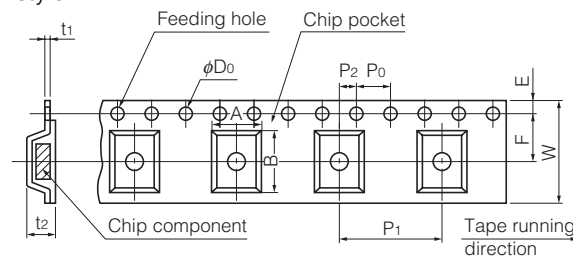
Embossed Carrier Taping

style 1, 3, 4

(W=12 mm)



style 2



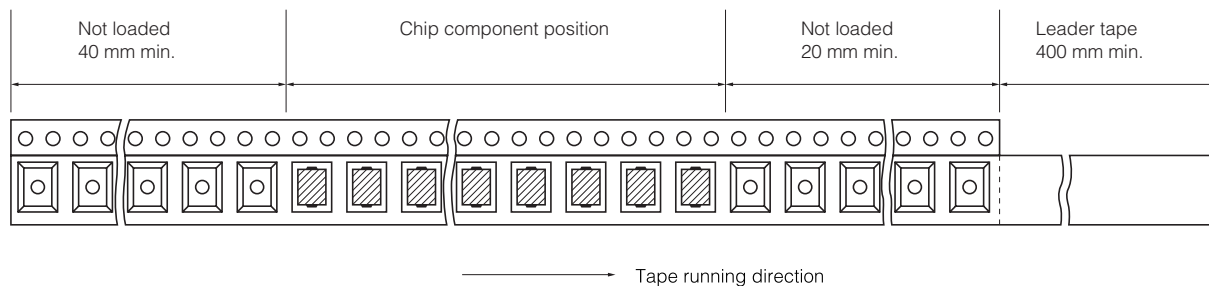
Unit:(mm)

Symbol	A	B	W	F	E	P_1	P_2	P_0	ϕD_0	t_1	t_2
Dim. (mm)											
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
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

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.

Dec. 2007

● Leader Part and Taped End



■ Ratings and Characteristics

● Rated Voltage 1 to 5 kVDC

Rated Voltage	Part Number	Capacitance (pF)	Cap. Tolerance (%)	Temp. Char	Style
5 kVDC	ECCT3H050DGM	5	±0.5 pF	SL/GP	Style 2
	ECCT3H100JGM	10	±5	SL/GP	
	ECCT3H120JGM	12	±5	SL/GP	
	ECCT3H150JGM	15	±5	SL/GP	
	ECCT3H180JGM	18	±5	SL/GP	
	ECCT3H220JGM	22	±5	SL/GP	
	ECCT3H270JGM	27	±5	SL/GP	Style 4
	ECCT3H050DGY	5	±0.5 pF	SL/GP	
	ECCT3H080DGY	8	±0.5 pF	SL/GP	
	ECCT3H100JGY	10	±5	SL/GP	
	ECCT3H120JGY	12	±5	SL/GP	
	ECCT3H150JGY	15	±5	SL/GP	
4 kVDC	ECCT3G100DG2	10	±0.5 pF	SL/GP	Style 3
	ECCT3G120JG2	12	±5	SL/GP	
	ECCT3G150JG2	15	±5	SL/GP	
	ECCT3G180JG2	18	±5	SL/GP	
	ECCT3G220JG2	22	±5	SL/GP	
	ECCT3G270JG2	27	±5	SL/GP	
	ECCT3G330JG	33	±5	SL/GP	Style 1
	ECCT3G390JG	39	±5	SL/GP	
	ECCT3G470JG	47	±5	SL/GP	
	ECCT3F100DG2	10	±0.5 pF	SL/GP	Style 3
3 kVDC	ECCT3F120JG2	12	±5	SL/GP	
	ECCT3F150JG2	15	±5	SL/GP	
	ECCT3F180JG2	18	±5	SL/GP	
	ECCT3F220JG2	22	±5	SL/GP	
	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	Style 1
2 kVDC	ECKT3D101KB	100	±10	B/Y5P	
	ECKT3D121KB	120	±10	B/Y5P	
	ECKT3D151KB	150	±10	B/Y5P	
	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	Style 1
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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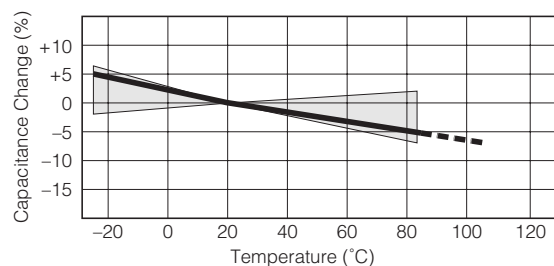
Sep. 2006

■ Typical Characteristics

● Temperature Characteristics

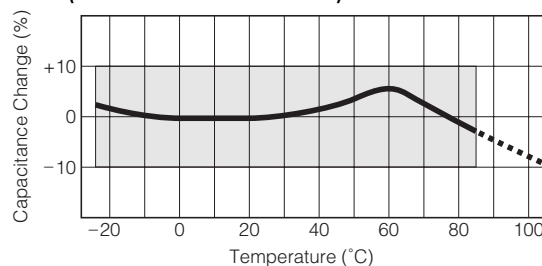
Char. SL/GP

(Temp.Coeff.: +350 to -1000 ppm/°C)



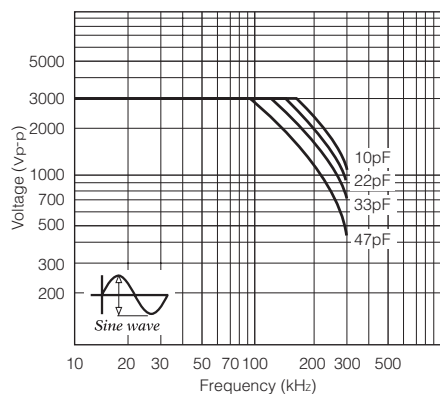
Char. B/Y5P

(Temp.Range: -25 to 85 °C)
(max.Cap.Change: ±10 %)

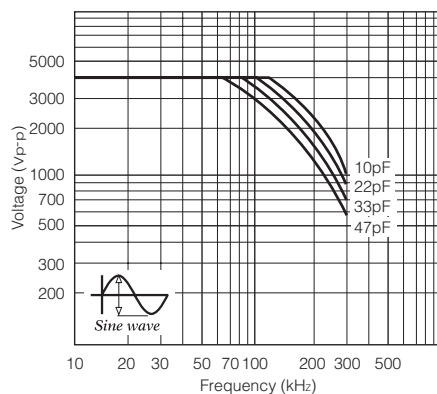


● Characteristics of Voltage-Frequency

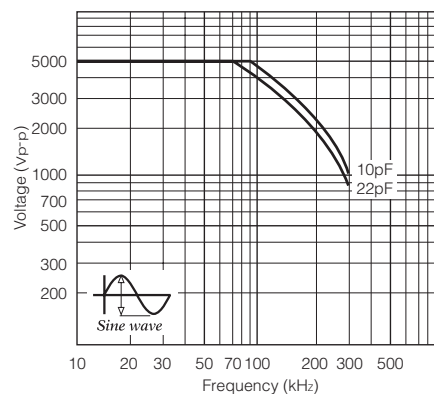
Rated Voltage 3 kVDC



Rated Voltage 4 kVDC



Rated Voltage 5 kVDC



The graphs above show the maximum permissible voltage when using a capacitor with an AC sine wave voltage.

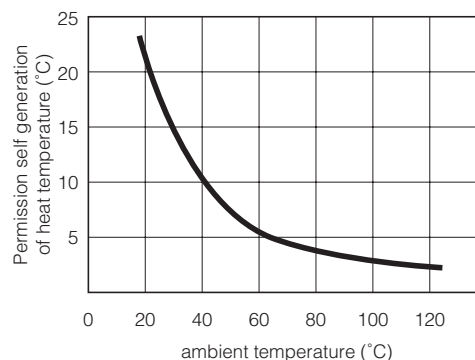
When measuring this voltage in room temperature (25 °C), the capacitor self-heat generation will rise a maximum of 20 °C.

When using a pulse voltage or an AC voltage other than a sine 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.

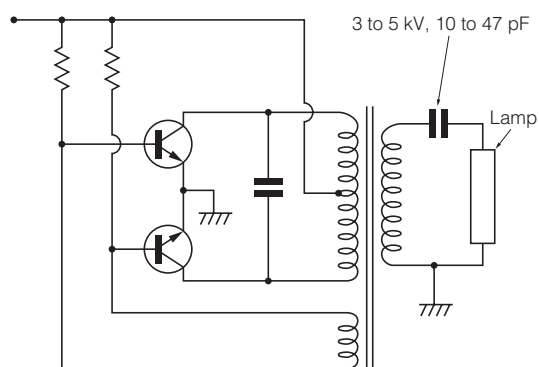
As for the situation when the self-heat generation temperature is more than 25 °C, refer to the figure on the right.

Permission self generation of heat temperature vs. ambient temperature



■ Application Examples

● LCD Backlighting Inverter



● Primary circuit and Snubber circuit of Switching Power Supply

