

CERAMIC • CAPACITOR

CLASS I 50V, 100V, 500V, 1KV, 2KV, 3KV TEMPERATURE COMPENSATION TYPE

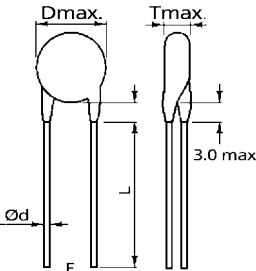
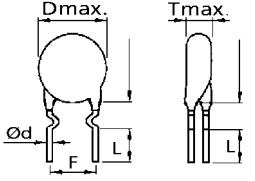
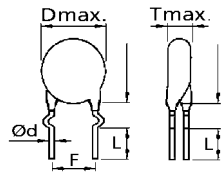
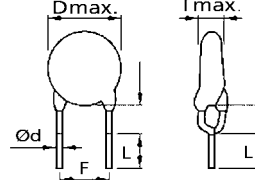
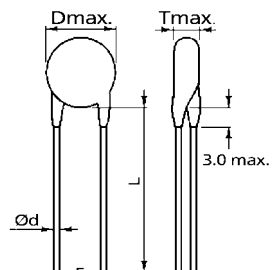
FEATURES:

- Capacitance has linear temperature coefficient
- Capacitance high stability
- Epoxy Coating for 2KV and 3KV parts (equivalent to UL94V-0 standards).
- We eliminated lead (Pb) from plating lead wires.
- Low loss at wide range of frequency

GENERAL SPECIFICATION


Capacitance Range	1pF to 820pF
Capacitance Tolerance	$\pm 0.25\text{pF}$, $\pm 0.5\text{pF}$, $\pm 5\%$, $\pm 10\%$
Operating Temperature Range	-25°C~85°C
Rated Voltage	50, 100, 500, 1000, 2000, 3000 VDC
Q Factor @ 1MHz, $1 \pm 0.2 V_{\text{rms}}$, 25°C	$C \geq 30 \text{ pF} \dots \dots \dots Q \geq 1,000$, $C < 30 \text{ pF} \dots \dots \dots Q \geq 400 + 20^\circ\text{C}$
Insulation Resistance (IR) @ 25°C	10,000 M Ω Minimum
Dielectric Strength	50~500VDC: 3 times the rated WVDC; 1K,2K,3KVDC: 2 times the rated WVDC
Testing Parameters	1MHz $\pm 20\%$, 1.0Vrms ± 0.2 Vrms

Lead style: (unit: mm)

Lead type	Lead Code	Lead configuration	Lead type	Lead Code	Lead configuration
Type 1 Straight long lead (Straight from coating lead)	L	lead style: L 	Type 3 Inside kink lead	H	lead style: H 
Type 2 Outside kink lead	X	lead style: X 	Type 4 Vertical kink short lead	D	lead style: D 
Type 5 Straight lead (Straight from body bottom)	B	lead style: B 			

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T.C		CH (CLASS I, Temperature: -25°C~+85°C, T.C.C.: 0±60ppm)																					
		50V (CH500) & 100V (CH101)								500V (CH501)					1KV (CH102)					2KV (CH202)			
Rated voltage		040	050	060	070	080	100	110	120	040	050	060	080	100	050	060	070	080	100	060	080		
D Ø (Code)		040	050	060	070	080	100	110	120	040	050	060	080	100	050	060	070	080	100	060	080		
D max. (mm)		4.5	5.5	6.5	7.5	8.5	10.5	11.5	12.5	4.5	5.5	6.5	8.5	10.5	6.0	7.0	8.0	9.0	11.0	7.5	9.5		
T max. (mm)		3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
0.5	OR5									OR5													
1																							
2																							
3																							
4																				040			
5																							
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7										070													
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10										120						120							
12										150					150								
15										200													
18										220					220					220			
20																240					240		
22																							
24																330							
27																							
33	330																						
36		360								360							360						
39										390													
47																					470		
51																							
56		560								560						560							
62			620								620						620						
68																							
75			750														750						
82					820														820				
100					101						101								101				
120						121							121										
150						151							151										
180							181																
200								200															
220									220														
240																							
270							270																
300								300															
330									330														
360										360													
390											390												
Packing		T or B				B				T or B				T or B				T or B					
Coating		PHENOL																				EPOXY	
Marking		1. Temperature characteristic				2. Nominal capacitance				3. Capacitance tolerance				4. Rated voltage				5. Manufacturer's identification					
		CH: No marking, but recognized by black color presented on the top of product.				Identified by 3-figure code. Ex. 5pF → "5" 100 pF → "101"				±5%		J		50V		Marked as underline		Shall be marked as "UK", but D Ø=6.0 mm and less in Dia shall be omitted.					
						±0.25pF		C		500V		No marking (is space.)											
						±0.5pF		D		1000V		Marked "1kV"											
								2000V		Marked "2kV"													

PS.: packing : T: Packing in taping type. B: Packing in bulking type.

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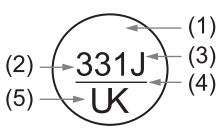


Manufacturing Capacitance List

Cap. Value v.s. Rate voltage, Product diameter & Type

T.C	SL (CLASS I, Temperature: +20°C~+85°C, T.C.C.: +350~-1000ppm)																			
Rated voltage	50V (SL500); 100V (SL101)							500V (SL501)						1KV (SL102)			2KV (SL202)			
D Ø (Code)	040	050	060	070	080	090	100	040	050	060	070	090	100	050	060	100	060	080	100	120
D max. (mm)	4.5	5.5	6.5	7.5	8.5	9.5	10.5	4.5	5.5	6.5	7.5	9.5	10.5	6.0	7.0	11.0	7.5	9.5	11.5	13.5
T max. (mm)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
8	080							080												
10																				
12																				
15																		150		
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30																				
33																				
36																				
39																				
47															470					
51																				
56								560							560					
68									680							680				
75																				
82																				
100	101								101							101		101		
120		121								121							121		121	
150		151								151								151		
180			181								181								181	
200																				
220			221								221						221			
240				241								241								
270																			271	
300																				301
330				331								331								331
360					361								361							
390													391							
470					471															
500						501														
510																				
560						561														
680								681												
750																				
820								821												


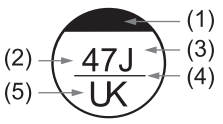
Packing	T or B	T or B	T or B	T or B	B	
Coating	PHENOL			EPOXY		

Marking		1. Temperature characteristic	2. Nominal capacitance	3. Capacitance tolerance		4. Rated voltage		5. Manufacturer's identification
		SL: No marking.	Identified by 3-figure code. Ex. 5pF → "5" 100 pF → "101"	±5% ±0.25pF ±0.5pF	J C D	50V 500V 1000V 2000V	Marked as underline No marking (is space.) Marked "1kV" Marked "2kV"	Shall be marked as "UK", but D Ø=6.0 mm and less in Dia shall be omitted.

PS.: packing: T: Packing in taping type. B: Packing in bulking type.

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CLASS I 50V, 100V, 500V, 1KV, 2KV, 3KV TEMPERATURE COMPENSATION TYPE

 <div style="text-align: center;"> <h2>Manufacturing Capacitance List</h2> <h3>Cap. Value v.s. Rate voltage, Product diameter & Type</h3> </div>														
T.C	UJ (CLASS I, Temperature: -25°C~+85°C, T.C.C.: -750 ±120ppm)										RH (CLASS I, Temperature: -25°C~+85°C, T.C.C.: -220±60ppm)			
Rated voltage	50V (UJ500) & 100V (UJ101)					500V (UJ501)					50V (RH500) & 100V (RH101)			
D Ø (Code)	050	060	070	080	100	050	060	080	100	050	060	070	080	100
D max.(mm)	5.5	6.5	7.5	8.5	10.5	5.5	6.5	9.0	11.0	5.5	6.5	7.5	8.5	10.5
T max.(mm)	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	3.5	3.5	3.5	3.5	3.5
4										040				
5														
6														
7														
8														
10														
12						120								
15														
18														
20														
22														
25	250													
27														
30														
33										330				
36						360					360			
39							390							
47	470													
50		500												
56							560				560			
68								680				680		
75		750												
82			820									820		
100			101					101					101	
120				121					121					
150				151					151					
180					181									181
200														
220														
270					271									271
Packing	T or B					T or B					T or B			
Coating	PHENOL													
Marking			1. Temperature characteristic	2. Nominal capacitance	3. Capacitance tolerance		4. Rated voltage		5. Manufacturer's identification					
			recognized by color presented on the top of product: 1. UJ: by purple color 2. RH: by yellow color	Identified by 3-figure code. Ex. 5pF → "5" 100 pF → "101"	±5% J ±0.25pF C ±0.5pF D	50V Marked as underline 500V No marking (is space.) 1000V Marked "1kV" 2000V Marked "2kV"	Shall be marked as "UK", but D Ø=6.0 mm and less in Dia shall be omitted.							

PS.: packing : T: Packing in taping type. B: Packing in bulking type.

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CLASS I 50V, 100V, 500V, 1KV, 2KV, 3KV TEMPERATURE COMPENSATION TYPE




Manufacturing Capacitance List

Cap. Value v.s. Rate voltage, Product diameter & Type

T.C	PH (CLASS I, Temperature: -25°C~+85°C, T.C.C.: -150±60ppm)										SH (CLASS I, Temperature: -25°C~+85°C, T.C.C.: -330±60ppm)		
Rated voltage	50V (PH500) & 100V (PH101)					500V (PH501)					50V (SH500) & 100V (SH101)		
D Ø (Code)	050	060	070	080	100	120	050	060	080	100	050	060	070
D max. (mm)	5.5	6.5	7.5	8.5	10.5	12.5	5.5	6.5	9.0	11.0	5.5	6.5	7.5
T max. (mm)	3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	3.5	3.5	3.5
1							010						
2													
3													
4	040										040		
5													
6													
7													
8													
10													
12													
15													
18							180						
20								200					
22													
25													
27													
30													
33								330			330		
36									360			360	
39													
47	470												
51		510											
56								560					
62										620			
68												680	
75		750											750
82			820							820			
100			101										101
120				121									
150				151									
180					181								
200													
220													
240													
270					271								
300						301							
330						331							

Packing T or B B T or B



Coating PHENOL

Marking		1. Temperature characteristic	2. Nominal capacitance	3. Capacitance tolerance		4. Rated voltage		5. Manufacturer's identification
		Recognized by color presented on the top of product: 1. PH: by orange color 2. SH: by green color	Identified by 3-figure code. Ex. 5pF→"5" 100 pF→"101"	±5%	J	50V	Marked as underline	Shall be marked as "UK", but D Ø=6.0 mm and less in Dia shall be omitted.
				±0.25pF	C	500V	No marking (is space.)	
				±0.5pF	D	1000V 2000V	Marked "1kV" Marked "2kV"	

P.S.: packing : T: Packing in taping type. B: Packing in bulking type.

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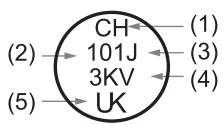



Manufacturing Capacitance List

Cap. Value v.s. Rate voltage, Product diameter & Type

T.C.	CH (CLASS I, Temperature: -25°C~+85°C, T.C.C.: 0±60ppm)							SL (CLASS I, Temperature: +20°C~+85°C, T.C.C.: +350~-1000ppm)						
Rated voltage	3KV (CH302)							3KV (SL302)						
D Ø (Code)	060	070	080	090	100	110	130	060	070	080	100	110	130	140
D max. (mm)	8.0	9.0	10.0	11.0	12.0	13.0	15.0	8.0	9.0	10.0	12.0	13.0	15.0	16.0
T max. (mm)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2	020													
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4														
5								050						
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12	120													
15		150												
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24		240												
27			270											
30			300											
33				330										
36														
39								390						
47				470					470					
51					510									
56					560									
62						620			620					
68										680				
75						750								
82							820							
100							101			101				
120											121			
150											151			
180												181		
200												201		
220													221	
240														241
270														271

Ød (mm)	0.6 +0.06/-0.05													
Packing	BULK													
Coating	EPOXY													

Marking		1. Temperature characteristic	2. Nominal capacitance	3. Capacitance tolerance		4. Rated voltage		5. Manufacturer's identification
		1. CH:Gbe marked "CH" 2. SL:GNo marking	Identified by 3-figure code. Ex. 5pF→"5" 100 pF→"101"	±0.25pF C ±0.5pF D ±5% J ±10% K	3000V	Marked "3kV"	Shall be marked as "UK", but DØ=6.0 mm and less in Dia shall be omitted.	

PS.: packing : T: Packing in taping type. B: Packing in bulking type.