

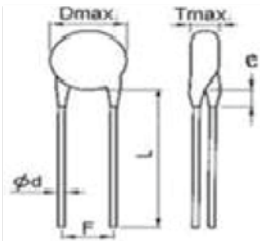
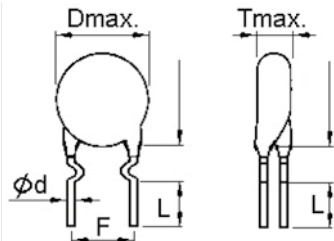
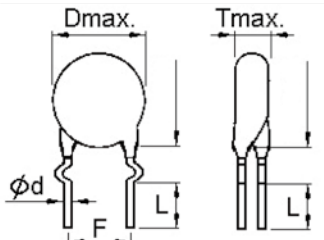
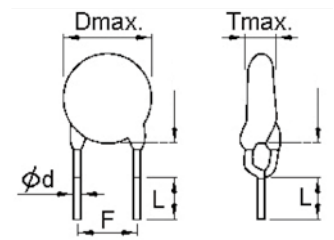
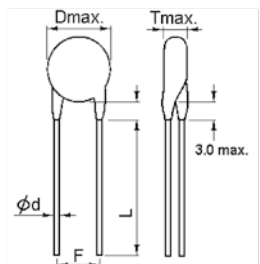
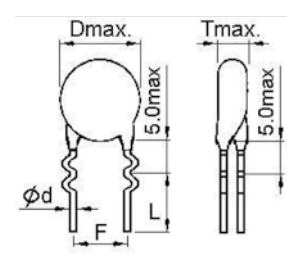
Features :

- Capacitance has non-linear temperature coefficient.
- Large capacitance in small size.
- Epoxy Coating for 2KV and 3KV parts (equivalent to UL94V-0 standards).
- RoHS Compliance
- Halogen free products are available
- Wide range of general purposes applications.

General specification:

Capacitance Range	100pF to 22000pF
Capacitance Tolerance	±10%(for Y5P&X7R), ±20%(for Z5U), +80% -20%(for Z5V&Y5V)
Operating Temperature Range	-25°C~ 85°C(Y5P,Y5V) ; 10°C~ 85°C(Z5U, Z5V) ; -55°C~ 125°C(X7R)
Rated Voltage	50,100,500,1000,2000,3000 VDC
Dissipation Factor (tan δ)	Y5P, Z5U, X7R : tan δ ≤2.5% Z5V, Y5V : tan δ ≤5.0%
Insulation Resistance (IR) @ 25°C	10,000MΩ minimum or 200MΩ μF whichever is smaller
Dielectric Strength	50~500VDC: 2.5 times the rated WVDC; 1K,2K,3KVDC: 2 times the rated WVDC
Testing Parameters	1KHz ±20%, 1.0Vrms±0.2Vrms

Lead style :

Lead type	Lead Code	Lead Configuration	Lead type	Lead Code	Lead Configuration
Type 1 Straight long lead	B	Lead style:B 	Type 4 Inside kink lead	H	Lead style:H 
Type 2 Outside kink lead	X	Lead style:X 	Type 5 Vertical kink short lead	D	Lead style:D 
Type 3 Straight short lead	L	Lead style:L 	Type 6 Double outside kink lead	M	Lead style:M 

CERAMIC DISC CAPACITOR

Class II 50V,100V,500V,1KV,2KV,3KV, Hi-K Type

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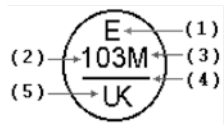
Manufacturing product range Cap. Value VS. Rated voltage, Product diameter & Type															Photo: 
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T.C.	Y5P (Class II, Temperature:-25°C~+85°C, T.C.C.:±10%)																											
Rated voltage	50V(YP500)&100V(YP101)							500V(YP501)									1KV(YP102)						2KV(YP202)					
D Ø (Code)	040	050	060	070	080	090	110	040	050	060	070	080	090	100	110	130	050	060	070	080	100	120	060	080	090	100	120	140
D max. (mm)	4.5	5.5	6.5	7.5	8.5	9.5	11.0	4.5	5.5	6.5	7.5	9.0	10.0	11.0	12.0	14.0	6.0	7.0	8.0	9.0	11.0	13.0	7.5	9.5	10.5	11.5	13.5	15.5
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	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
100	101							101									101						101					
120	121							121									121						121					
150	151							151									151						151					
180	181							181									181						181					
200	201							201									201						201					
220	221							221									221						221					
240	241							241									241						241					
270	271							271									271						271					
330	331							331									331						331					
390	391							391									391						391					
470	471							471									471						471					
560	561							561									561						561					
680	681							681										681					681					
820	821								821									821						821				
1000	102								102									102						102				
1200		122								122									122						122			
1500		152								152									152						152			
1800		182									182									182					182			
2000		202									202									202					202			
2200		222									222									222					222			
2700			272									272									272					272		
3000			302									302									302					302		
3300			332										332								332						332	
3900				392									392									392					392	
4700				472										472								472					472	
5000					502									502														
5600					562									562														
6800						682									682													
8200							822									822												
10000							103									103												
Packing	T or B			B			T or B						B			T or B			B			T or B			B			
Coating	Phenolic Resin																					Epoxy Resin						

Marking		1. Temperature characteristic	2. Nominal Capacitance	3. Capacitance tolerance	4. Rated voltage	5. Manufacturer's identification
		1. be marked "B" 2. when D Ø =4.0 mm or rated voltage 1KV & D Ø =5.0, the "B" shall be omitted.	Identified by 3-figure code. 1000pF → "102" 3300pF → "332"	K: ±10%	50/100V 500V 1000V 2000V	Marked as underline No marking (is blank.) Marked "1KV" Marked "2KV"
						Shall be marked as " UK ", but D Ø =6.0 mm and less in Dia shall be omitted.

P.S.:Packing : T → Packing in taping type.

B → Packing in bulk type.

Manufacturing product range Cap. Value VS. Rated voltage, Product diameter & Type																	Photo:								
T.C.	Z5U (Class II, Temperature:+10°C~+85°C, T.C.C.:+22~ -56%)																								
Rated voltage	50V(ZU500)&100V(ZU101)						500V(ZU501)					1KV(ZU102)					2KV(ZU202)								
D Ø (Code)	040	050	060	070	080	100	040	050	060	070	090	050	060	070	090	100	060	070	080	090	110	130			
D max. (mm)	4.5	5.5	6.5	7.5	8.5	10.5	4.5	5.5	6.5	7.5	9.5	6.0	7.0	8.0	10.0	11.0	7.5	8.5	9.5	10.5	12.5	14.5			
T max. (mm)	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	4.5	4.5	4.5	4.5			
1000	102						102					102					102								
1200	122							122				122					122								
1500	152							152				152						152							
1800	182							182				182						182							
2000	202							202				202						202							
2200	222							222				222						222							
2700	272							272					272						272						
3000	302								302				302						302						
3300	332								332				332						332						
3600	362								362				362							362					
3900	392								392					392						392					
4700	472									472				472						472					
5000		502								502				502							502				
5600			562							562					562						562				
6800			682							682					682						682				
8200			822								822					822						822			
10000				103							103					103						103			
12000					123																				
15000					153																				
18000																									
22000																									
Packing	T or B						T or B					T or B					B	T or B						B	
Coating	Phenolic Resin																Epoxy Resin								
Marking							1. Temperature characteristic					2. Nominal Capacitance					3. Capacitance tolerance					4. Rated voltage		5. Manufacturer's identification	
							1. be marked "E" 2. when D ø =4.0 mm or rated voltage 1KV & D ø =5.0, the "E" shall be omitted.					Identified by 3-figure code. 4700pF → "472" 10000pF → "103"					M: ±20%					50/100V	Marked as underline	Shall be marked as " UK ", but D Ø =6.0 mm and less in Dia shall be omitted.	
																						500V	No marking (is blank.)		
																						1000V	Marked "1KV"		
																						2000V	Marked "2KV"		

P.S.: Packing : T → Packing in taping type.

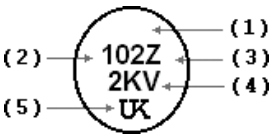
B → Packing in bulk type.

CERAMIC DISC CAPACITOR

Class II 50V,100V,500V,1KV,2KV,3KV, Hi-K Type

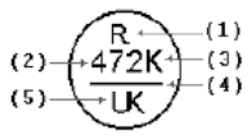
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Manufacturing product range Cap. Value VS. Rated voltage, Product diameter & Type						Photo:			
T.C.	Z5V (Class II, Temperature:+10°C~+85°C, T.C.C.:+22~ -82%)								
Rated voltage	50V(ZV500)&100V(ZV101)				500V(ZV501)	1KV(ZV102)			2KV(ZV202)
D Ø (Code)	050	060	070	080	080	060	080	100	120
D max. (mm)	5.5	6.5	7.5	8.5	9.0	7.0	9.0	11.0	13.5
T max. (mm)	3.5	3.5	3.5	3.5	4.0	4.5	4.5	4.5	4.5
1000	102								
1200	122								
1500	152					152			
1800	182					182			
2000	202					202			
2200	222					222			
2700	272					272			
3000	302					302			
3300	332								
3600	362								
3900	392						392		
4700	472						472		
5000							502		
5600									
6800									
8200									
10000		103			103			103	103
15000									
18000									
20000			203						
22000				223					
Packing	T or B	T or B	T or B	T or B	T or B	T or B	T or B	T or B	B
Coating	Phenolic Resin								Epoxy Resin
Marking			1. Temperature characteristic	2. Nominal Capacitance	3. Capacitance tolerance	4. Rated voltage		5. Manufacturer's identification	
			Z5V: the logo is "F", but the "F" shall be omitted.	Identified by 3-figure code. 4700pF → "472" 10000pF → "103"	Z: -20~+80%	50/100V	Marked as underline	Shall be marked as " UK ", but D Ø =6.0 mm and less in Dia shall be omitted.	
						500V	No marking (is blank.)		
						1000V	Marked "1KV"		
						2000V	Marked "2KV"		

P.S.: Packing : T → Packing in taping type.

B → Packing in bulk type.

Manufacturing product range Cap. Value VS. Rated voltage, Product diameter & Type																								Photo: 				
T.C.	X7R (Class II, Temperature:-55°C~+125°C, T.C.C.:±15%)																											
Rated voltage	50V						500V										1KV						2KV					
D Ø (CODE)	040	050	060	070	080	100	040	050	060	070	080	090	100	110	120	140	050	060	070	080	100	110	060	070	080	100	120	130
D max. (mm)	4.5	5.5	6.5	7.5	8.5	10.5	4.5	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	14.5	6.0	7.0	8.0	9.0	11.0	12.0	7.5	8.5	9.5	11.5	13.5	14.5
T max. (mm)	3.5	3.5	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
100	101						101										101						101					
120	121						121										121						121					
150	151						151										151						151					
180	181						181										181						181					
200	201						201										201						201					
220	221						221										221						221					
240	241						241										241						241					
270	271						271										271						271					
300	301						301										301						301					
330	331						331										331						331					
360	361						361										361						361					
390	391						391										391						391					
470	471						471										471						471					
510	511						511											511					511					
560	561						561											561					561					
620	621						621											621					621					
680	681						681											681					681					
750	751							751										751										
820	821							821										821						821				
1000	102							102										102						102				
1200		122							122										122					122				
1500		152								152									152					152				
1800		182								182										182					182			
2000		202								202										202						202		
2200		222								222										222						222		
2700			272								272										272					272		
3000			302								302										302						302	
3300			332									332									332						332	
3600												362									362						362	
3900				392								392									392						392	
4700				472									472									472						472
5000				502																								
5600					562									562														
6800						682																						
8200							822																					
10000							103																					
Packing	T						T						B						T						B			
Coating	Phenolic Resin																						Epoxy Resin					
Marking							1. Temperature characteristic be marked "R"						2. Nominal Capacitance Identified by 3-figure code. 1000pF → "102" 3300pF → "332"						3. Capacitance tolerance K: ±10%						4. Rated voltage		5. Manufacturer's identification Shall be marked as " UK ", but D Ø =6.0 mm and less in Dia shall be omitted.	
																									50/100V			
																									500V			
																									1000V			
																									2000V			
Marked as underline																												
No marking (is blank.)																												
Marked "1KV"																												
Marked "2KV"																												

P.S.:Packing : T → Packing in taping type.

B → Packing in bulk type.

CERAMIC DISC CAPACITOR

Class II 50V,100V,500V,1KV,2KV,3KV, Hi-K Type

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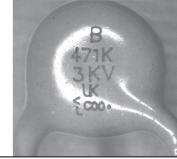


Manufacturing product range

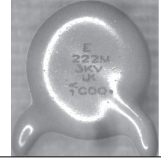
Cap. Value VS. Rated voltage, Product diameter & Type

Photo:

Y5P



Z5U



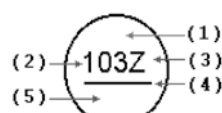
T.C.	Y5P (Class II, Temperature:-25°C~+85°C, T.C.C.:±10%)					Z5U (Class II, Temperature:+10°C~+85°C, T.C.C.:+22~ -56%)						
Rated voltage	3KV (YP302)					3KV (ZU302)						
D Ø	060	070	090	110	130	060	080	100	110	120	140	170
D max. (mm)	8.0	9.0	11.0	13.0	15.0	8.0	10.0	12.0	13.0	14.0	16.0	19.0
T max. (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
100	101											
120	121											
150	151											
180	181											
200	201											
220	221											
240	241											
270	271											
300	301											
330	331											
360		361										
390		391										
470		471										
510		511										
560		561										
620			621									
680			681									
750			751									
820			821									
1000			102			102						
1200				122			122					
1500				152			152					
1800				182			182					
2000					202		202					
2200					222		222					
2700								272				
3300								332				
3600									362			
3900									392			
4700										472		
5000										502		
5600											562	
6800											682	
8200												822
10000												103
Ø d (mm)	0.6 ± 0.06											
Packing	B											
Coating	Epoxy Resin											

	1. Temperature characteristic	2. Nominal capacitance	3. Capacitance tolerance	4. Rated voltage	5. Manufacturer's identification	6. Halogen and Pb free
	Y5P: Be marked "B" Z5U: Be marked "E"	Identified by 3-figure code when Cap. ≥ 100pF Ex. 1000pF → "102"	K: ±10% (For Y5P) M: ±20% (For Z5U)	3000V : Be marked "3kV"	Shall be marked as "UK", but when the body diameter ≤ 060 shall be omitted.	When the epoxy resin is Halogen and Pb free, there is a "_" marking.
	Definition of date code marking :					
	7. Supplier of Epoxy	8. No. of test equipment	9. Factory of manufacture	10. Year of manufacture	11. Month of manufacture	12. Week of manufacture by month

P.S.: Packing : T → Packing in taping type.

B → Pack in bulk type.

Manufacturing product range
Cap. Value VS. Rated voltage, Product diameter & Type

T.C.	Y5V (Class II, Temperature: -25°C~ +85°C, T.C.C.:+22% ~ -82%)												
Rated voltage	50V				100V			500V			1KV	2KV	
D Ø	040	050	060	080	040	050	060	050	070	080	100	070	120
D max. (mm)	4.5	5.5	6.6	8.5	4.5	5.5	6.6	5.5	7.5	8.5	11.0	8.5	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	4.5	5.0	5.0
1000	102				102							102	
2200		222				222		222				222	
4700		472				472			472				
10000			103				103			103	103		103
22000				223									
47000													
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				
				Y5V: the product logo is "F", but it is omitted on marking.	Identified by 3-figure code. 4700pF → "472" 10000 pF → "103"	Z: -20 ~ +80%	50V/100V	Marked as underline	Shall be marked as " UK ", but D Ø =6.0 mm and less in Dia shall be omitted.				
							500V	No marking (is blank.)					
							1000V	Marked "1KV"					
							2000V	Marked "2KV"					

P.S.: Packing : T → Packing in taping type.

B → Packing in bulk type.

Mouser Electronics

Authorized Distributor

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Walsin:

<u>YP202102K080D04A7H</u>	<u>YP102221K050L20C5H</u>	<u>YP102471K050B20C5H</u>	<u>YP501152K060HAND5P</u>
<u>YP101202K050BAND5A</u>	<u>YP101472K070HAND5P</u>	<u>YP102101K050B20C6P</u>	<u>YP501222K070B20C6P</u>
<u>YP501222K070HAND5P</u>	<u>YP501331K040B20C6P</u>	<u>YP501392K090HAND5P</u>	<u>YP501471K040B20C6P</u>
<u>YP501472K100B20C6P</u>	<u>YP501102M050HAND5P</u>	<u>YP501103K130B20C0P</u>	<u>YP501103K130H05B0P</u>
<u>YP501103K130X04A0P</u>	<u>YP501121K040B20C6P</u>	<u>YP501222K070B20C5P</u>	<u>YP500471K040B20C2P</u>
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<u>YP102182K080B20C5P</u>	<u>YP102182K080BAND5P</u>	<u>YP102221K050B20C6P</u>	<u>YP102222K080B20C0P</u>
<u>YP102222K080B20C7P</u>	<u>YP102101K050BAND5P</u>	<u>YP102101K050HAND5P</u>	<u>YP102102K060B20C6P</u>
<u>YP102102K060BAND5P</u>	<u>YP102102K060HAND5P</u>	<u>YP102122K070B20C5P</u>	<u>YP501103K130X05A0B</u>
<u>YP302471K070B20C0B</u>	<u>YP302471K070B20C0P</u>	<u>YP501103K130X05A0P</u>	