

Capacitance precision and temperature coefficient groups

Capacitance Range (pF)	$C_R \leq 10$	$10 < C_R \leq 100$	$100 < C_R \leq 1000$	$1000 < C_R \leq 10000$	$C_R > 10000$
Capacitance Precision	$\pm 0.5\text{pF}$	$\pm 2\% \text{ (0) } , \pm 5\% \text{ (I) } , \pm 10\% \text{ (II)}$	$\pm 2\% \text{ (0) } , \pm 5\% \text{ (I)}$	$\pm 1\% , \pm 2\% \text{ (0) } , \pm 5\% \text{ (I)}$	$\pm 0.5\% , \pm 1\% , \pm 2\% \text{ (0) } , \pm 5\% \text{ (I)}$
Temperature Coefficient Groups	Not demanded	C , D	D	D , E	

Insulation resistance

Measurement Condition	Under normal temperature	Under positive high-point temperature 85/125
Military	$C_R \leq 10000\text{pF}$, $R_i \geq 1 \times 10^{11}\text{Ohm}$	$C_R \leq 33000\text{pF}$, $R_i \geq 1 \times 10^9 \text{ Ohm}$
	$C_R > 10000 \text{ pF}$, $R_i \cdot C_R \geq 1000\text{Mohm} \mu\text{F}$	$C_R > 33000 \text{ pF}$, $R_i \cdot C_R \geq 33\text{Mohm} \mu\text{F}$
National	$C_R \leq 100000 \text{ pF}$, $R_i \geq 1 \times 10^{10} \text{ Ohm}$	$C_R \leq 33000\text{pF}$, $R_i \leq 1 \times 10^9 \text{ Ohm}$
	$C_R > 100000 \text{ pF}$, $R_i \cdot C_R \geq 1000\text{Mohm} \mu\text{F}$	$C_R > 33000 \text{ pF}$, $R_i \cdot C_R \geq 33\text{Mohm} \mu\text{F}$

The parameters of dissipation angle (a)

Measurement Condition	1MHz 1Vac					
Standard Capacitance Range(pF)	$C_R < 10$	$10 \leq C_R < 20$	$20 \leq C_R < 30$	$30 \leq C_R < 39$	$39 \leq C_R < 47$	$47 \leq C_R < 56$
Military $\text{tg} \delta \text{ (} \times 10^{-4} \text{)}$	Not demanded	15	12	11	10.5	10
National $\text{tg} \delta \text{ (} \times 10^{-4} \text{)}$		30		20		

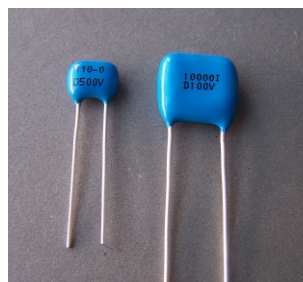
The parameters of dissipation angle (b)

Measurement Condition	1MHz , 1Vac				1KHz , 1Vac
Standard Capacitance Range (pF)	$56 \leq C_R < 68$	$68 \leq C_R < 82$	$82 \leq C_R \leq 100$	$100 < C_R \leq 1000$	$C_R > 1000$
Military $\text{tg} \delta \text{ (} \times 10^{-4} \text{)}$	9.5	8	7.5		8
National $\text{tg} \delta \text{ (} \times 10^{-4} \text{)}$	20			10	

Test voltage U_t : under normal climate , when the work voltage $U_w \leq 1000\text{V}$,
 $U_t = 2.0U_w$; when the work voltage $U_w > 1000\text{V}$, $U_t = 1.5 \sim 1.8U_w$ (The special value is seen the technical document.)

** Special value is available if requested.*

CY22 Dipped Miniature Silver Mica Capacitor



Features

- Monolithic / Miniature size
- Low loss and high stability
- Min. work voltage under 10uV
- Meet MIL-C-5

CY22 Dipped Mica Capacitors are fabricated from the top best China Danba Mica available. Using this mica, results in the capacitor with outstanding high temperature & frequency performance as well as excellent stability.

Key Performance Characteristics

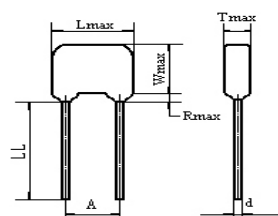
Standard Capacitance Range : 1 to 120,000 PF
 Capacitance Tolerance: $\pm 1\%$; $\pm 2\%$; $\pm 5\%$
 Voltage Rating : 50V to 3000V
 Operating Temperature: -55 to +125 degree C
 (+200 degree C is available if requested)
 Insulation Resistance (Min.): 1×10^9 ohms

How to Order

CY22 - 4 - 250 - D - 560PF - 0

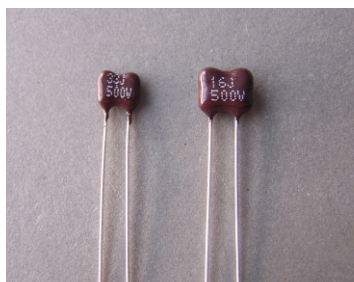
- ① Model ② Working Voltage ③ Temperature Coefficient Group
 ④ Nominal Capacitance ⑤ Capacitance Tolerance:

Dimension



Model	work voltage(V)	capacitance range(PF)	Size (mm)						
			Lmax	Bmax	Cmax	Rmax	A 1	d 0.1	LL
CY22/23-1	100	1~9	5.5	4.5	3.0	2.0	2.5	0.3	20 5
CY22/23-2	100	10~300	6.5	5.5	4.0	2.0	3.5	0.4	
CY22/23-3	100	330~1000	8.5	7	5.0	3.0	4.5	0.4	25 5
CY22/23-4	100	1100~2400	10	8.5	6.0	3.0	5	0.6	
	250	10~750							
	500	10~240							
CY22/23-5	100	2700~5100	12.5	10	7.0	3.5	6.5	0.6	28 5
	250	820~2400							
	500	270~750							
CY22/23-6	100	5600~10000	15	12	8.0	3.5	8.5	0.8	
	250	2700~5100							
	500	820~2400							
CY22/23-7	100	11000~18000	17.5	15.5	9.0	4.0	10	0.8	
	250	5600~10000							
	500	2700~5100							
CY22/23-8	100	20000~30000	22	19	9.0	4	17	1.0	
	250	11000~18000							
	500	5600~10000							
	1000	100~6800							
	1500	100~4300							
CY22/23-9	100	33000~68000	26	20	9	4	21	1.0	
	250	20000~47000							
	500	11000~33000							
	1000	7500~12000							
	1500	4700~7500							
	2000	1000~4300							
CY22/23-10	100	75000~120000	32	24	12	4	26	1.2	
	250	51000~75000							
	500	36000~62000							
	1000	13000~30000							
	1500	8200~20000							
	2000	4700~13000							
	2500	1000~5600							
	3000	510~3000							

CY 2(DM) Series Dipped Silver Mica Capacitor



Features

- Small Size
- Low loss and high stability
- Wide range of operating Tem.
- Meet MIL-C-5

CY2 Series Dipped Mica Capacitors have been designed to meet the exacting physical, electrical and environmental requirements of MIL-C-5. New levels of reliability, ruggedness, and electrical excellence have resulted in their wholesale adoption and used by the electronics industry for both military and commercial applications

Key Performance Characteristics

Standard Capacitance Range : 1 to 10,000 pF
 Capacitance Tolerance: +/-1%; +/-2%; +/-5%
 Voltage Rating : 100V to 1000V
 Operating Temperature: -55 to +85 degree C
 Insulation Resistance (Min.): 1×10^9

** High Frequency Type is available if requested*

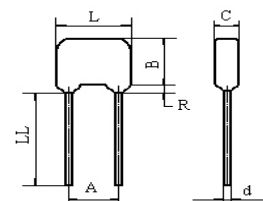
How to Order

CY2 - 100V - D - 470PF - I

① ② ③ ④ ⑤

- ① Model
- ② Working Voltage
- ③ Temperature Coefficient Group
- ④ Nominal Capacitance
- ⑤ Capacitance Tolerance:

Dimension



Model	Work Voltage (V)	Capacitance Range (PF)	Size(mm)						
			Lmax	Bmax	Cmax	Rmax	A 1	d 0.1	LLmin
CY2-0	100	10~220	6.9	6.4	4.4	2	3.1	0.45	31.75
	250	1~68							
CY2-1A	100	10~750	10	9.7	5.6	2	3.6	0.45	31.75
	250	10~330							
	500	1~200							
CY2-2A	100	10~2000	12.5	10.7	6.1	2	6.0	0.6	31.75
	250	10~1500							
	500	1~1000							
CY2-3A	100	100~8200	18.1	15.0	9.4	3.2	8.8	0.8	31.75
	250	100~6800							
	500	100~5100							
	1000	100~2500							
CY2-1	100	10~1000	9.0	8.0	5.0	2	6.0	0.6	20.0
CY2-2	100	1100~2400	12.0	8.5	6.0	2	8.0	0.6	20.0
CY2-3	100	2700~10000	17.0	12.5	7.0	3	12.5	0.8	20.0