

Mica Capacitor Technical Specification

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	$\pm 0.5\text{pF}$	$\pm 2\%$ (0) 、 $\pm 5\%$ (I) 、 $\pm 10\%$ (II)	$\pm 2\%$ (0) 、 $\pm 5\%$ (I)	$\pm 1\%$ 、 $\pm 2\%$ (0) 、 $\pm 5\%$ (I)	$\pm 0.5\%$ 、 $\pm 1\%$ 、 $\pm 2\%$ (0) 、 $\pm 5\%$ (I)
Temperature Coefficient Groups	Not demanded	C, D	D	D, E	

Insulation resistance

Measurement Condition	Under normal temperature	Under positive high-point temperature 85125
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)

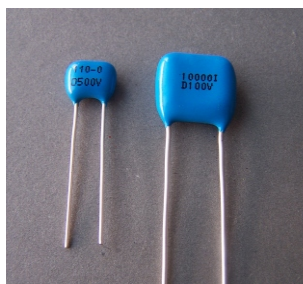
Measurement Condition	1MHz 1Vac					
Standard Capacitance Range (pF)	$C_R < 10$	$10 \leq C_R < 20$	$20 \leq C_R < 30$	$30 \leq C_R < 39$	$39 \leq C_R < 47$	$47 \leq C_R < 56$
Military $\text{tg } \delta (\times 10^{-4})$	Not demanded	15	12	11	10.5	10
National $\text{tg } \delta (\times 10^{-4})$		30		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 $\text{tg } \delta (\times 10^{-4})$	9.5	8	7.5		8
National $\text{tg } \delta (\times 10^{-4})$	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.)

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

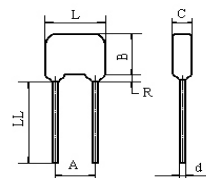
Standard Capacitance Range : 1 to 120,000 PF
 Capacitance Tolerance: +/-1%; +/-2%; +/-5%
 Voltage Rating : 50V to 3000V
 Operating Temperature: -55 to +125 degree C
 (+200 degree C is available if requested)
 Insulation Resistance (Min.): 1×10^9 ohms

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	d	LL
CY22-1	100	1~9	5.5	4.5	3.0	2.0	2.5	0.3	20 5
CY22-2	100	10~300	6.5	5.5	4.0	2.0	3.5	0.4	
CY22-3	100	330~1000	8.5	7	5.0	3.0	4.5	0.4	25 5
CY22-4	100	1100~2400	10	8.5	6.0	3.0	5	0.6	
	250	10~750							
	500	10~240							
CY22-5	100	2700~5100	12.5	10	7.0	3.5	6.5	0.6	28 5
	250	820~2400							
	500	270~750							
CY22-6	100	5600~10000	15	12	8.0	3.5	8.5	0.8	
	250	2700~5100							
	500	820~2400							
CY22-7	100	11000~18000	17.5	15.5	9.0	4.0	10	0.8	
	250	5600~10000							
	500	2700~5100							
CY22-8	100	20000~30000	22	19	9.0	4	17	1.0	
	250	11000~18000							
	500	5600~10000							
	1000	100~6800							
	1500	100~4300							
CY22-9	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							
CY22-10	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							