Mica Capacitor Technical Specification

Capacitance precision and temperature coefficient groups

Capacitance Range (pF)	$C_R \leq 10$	10 <c<sub>R≤100</c<sub>	100 <c<sub>R≤1000</c<sub>	1000 <c<sub>R≤10000</c<sub>	C _R >10000		
Capacitance Precision	±0.5pF	±2% (0) 、±5% (I)、±10% (II)	±2% (0) ±5% (I)	±1%, ±2% (0) ±5% (I)	$\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$ (0), $\pm 5\%$ (1)		
Temperature Coefficient Groups	Not demanded	C, D	D	D, E			

Insulation resistance

Measurement Condition	Under normal temperature	Under positive high-point temperature85125			
Military	$C_R \leqslant 10000 pF, Ri \geqslant 1 \times 10^{11} Ohm$	$C_R \leqslant 33000 pF$, $Ri \geqslant 1 \times 10^9 \text{ Ohm}$			
Williary	$C_R > 10000 \text{ pF}$, Ri: $C_R \ge 1000 \text{M}$ ohm $\mu \text{ F}$	$C_R > 33000 \ pF$, Ri. $C_R \geqslant 33 Mohm \ \mu F$.			
National	$C_R\!\leqslant\!\!100000pF$, $Ri\geqslant\!\!1\;x\;10^{10}$ Ohm	$C_R \leqslant 33000 pF$, $Ri \leqslant 1 \times 10^9 \text{ Ohm}$			
	$C_R > 100000 \ pF$, $Ri.C_R \ge 1000 Mohm \ \mu \ F$	$C_R > 33000 \text{ pF}$, Ri. $C_R \gg 33 \text{Mohm} \ \mu \text{ F}$			

The parameters of dissipation angle (a)

Measurement Condition	1MHz1Vac							
Standard								
Capacitance	$C_R < 10$	$10 \le C_R < 20$	$20 \le C_R < 30$	$30 \le C_R < 39$	$39 \le C_R < 47$	$47 \leqslant C_R < 56$		
Range(pF)								
Military		15	12	11	10.5	10		
tg δ ($\times 10^{-4}$)	Not	13	12	11	10.5	10		
National tg δ (×10 ⁻⁴)	demanded 3		0	20				
ιg 0 (Λ10)								

The parameters of dissipation angle (b)

Measurement Condition		1KHz, 1Vac				
Standard						
Capacitance	$56 \leqslant C_R < 68$	$68 \le C_R < 82$	$82 \leqslant C_R \leqslant 100$	$100 < C_R \le 1000$	$C_R > 1000$	
Range (pF)						
Military tg δ (×10 ⁻⁴)	9.5	8	7.	8		
National tg δ (×10 ⁻⁴)		20	10			

Test voltage Ut: under normal climate , when the work voltage $Uw \le 1000V$, Ut=2.0Uw; when the work voltage Uw > 1000V, $Ut=1.5 \sim 1.8Uw$ (The special value is seen the technical document.)

CY22 Dipped Miniature Silver Mica Capacitor



Features

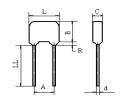
- Monolithic / Miniature size
- Low loss and high stability
- Min. work voltage under 10uV
- Meet MIL-C-5

How to Order

 $\begin{array}{cccc} CY22 - 4 - 250 - D - 560PF - 0 \\ \hline 1 & 2 & 3 & 4 & 5 \end{array}$

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

Dimension



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.): 1x10° ohms

nsulation Resista	nce (Min.):	1x10°ohm	S							
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		
CY22-2	100	10~300	6.5	5.5	4.0	2.0	3.5	0.4	20 3	
CY22-3	100	330~1000	8.5	7	5.0	3.0	4.5	0.4	25 5	
	100	1100~2400	10	8.5	6.0	3.0	5	0.6		
CY22-4	250	10~750								
	500	10~240								
	100	2700~5100								
CY22-5	250	820~2400	12.5	10	7.0	3.5	6.5	0.6		
	500	270~750								
	100	5600~10000	15			3.5	8.5	0.8		
CY22-6	250	2700~5100		12	8.0					
	500	820~2400								
	100	11000~18000	17.5		9.0	4.0	10	0.8	- 28 5	
CY22-7	250	5600~10000		15.5						
	500	2700~5100								
	100	20000~30000	22	19	9.0	4	17	1.0		
	250	11000~18000								
CY22-8	500	5600~10000								
	1000	100~6800								
	1500	100~4300								
	100	33000~68000	26	20	9	4	21	1.0		
	250	20000~47000								
CY22-9	500 1000	11000~33000 7500~12000								
	1500	4700~7500								
	2000	1000~4300								
	100	75000~120000	32	24	12	4	26	1.2		
	250	51000~75000								
	500	36000~62000								
CY22-10	1000	13000~30000								
	1500	8200~20000								
	2000	4700~13000								
	2500	1000~5600								
	3000	510~3000								