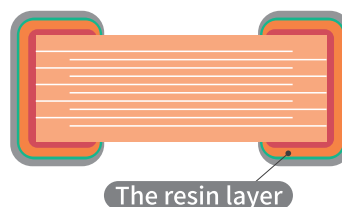


FEATURES

Capacitance:100pF~10μF
 Rated voltage: .25V~500V
 Operating temperature:-55°C~+125°C



APPLICATIONS

Suitable for switching power supplies, telecom base stations, the alumina substrate circuit application, circuits with high bending curvature requirements.

ClassI:suitable for high frequency amplifier circuit, high frequency coupling resonance loop, and low noise circuit, high-frequency bypass and low loss, high stability and high insulation resistance capacitance of the circuit.

ClassII: suitable for circuit filtering, by-pass, coupling circuit at low frequency.

ORDERING INFORMATION

(G)	CT41G	1206	2R1	100V	105	K	F	B
Quality Grade	Series	Case Size	Dielectric	Rated Voltage	Capacitance	Capacitance Tolerance	Termination Finish	Internal Electrode
(G) : (G) LEVEL	CC41: Class I	0402	CG (Class I)	25V	Refer to Capacitance and Rated Voltage Range	C=±0.25pF D=±0.5pF J=±5% K=±10% M=±20%	F	B
“S” : “S” LEVEL		0603	2R1 (Class II)	50V				
		0805	2C1 (Class II)	100V				
“J” : “J” LEVEL	CT41G: Class II	1206		250V 500V				

DIMENSIONS

Unit: mm

Appearance		0402	0603	0805	1206	1210
	L	1.00±0.20	1.60±0.25	2.00±0.40	3.20±0.40	3.20±0.50
	W	0.50±0.20	0.80±0.25	1.25±0.25	1.60±0.30	2.50±0.30
	Tmax	0.70	1.00	1.45	1.90	2.80
	t	0.25±0.10	0.35±0.25	0.50±0.25	0.50±0.35	0.60±0.30

ELECTRICAL CHARACTERISTICS

Characteristics	Dissipation Factor(C_R Unit:pF)	Dielectric Strength	Insulation Resistance 25°C (C_R Unit:μF)	Operating Temperature Range
CG	$C_R \leq 30\text{pF}$ $\text{tg } \delta \leq \frac{1.5}{(400+20C_R)}$ $C_R > 30\text{pF}$ $\text{tg } \delta \leq 0.15\%$	$U_R < 200\text{V}$ $2.5U_R$ $250\text{V} \leq U_R \leq 630\text{V}$ $1.5U_R$	$10\text{G}\Omega$ or $500\text{M}\Omega \cdot \mu\text{F}$, whichever is less Note: $U_R \geq 250\text{V}$, $10\text{G}\Omega$ or $100\text{M}\Omega \cdot \mu\text{F}$, whichever is less	-55°C~125°C
2R1	$U_R < 100\text{V}$ $\text{tg } \delta \leq 5\%$ $100\text{V} \leq U_R$ $\text{tg } \delta \leq 3\%$		$10\text{G}\Omega$ or $500\text{M}\Omega \cdot \mu\text{F}$, whichever is less Note: $U_R \leq 16\text{V}$ 及 $U_R \geq 250\text{V}$, $10\text{G}\Omega$ or $100\text{M}\Omega \cdot \mu\text{F}$, whichever is less	
2C1	$\text{tg } \delta \leq 10\%$		$10000\text{M}\Omega$ or $100\text{M}\Omega \cdot \mu\text{F}$, whichever is less	

TEST LEVEL

“J” LEVEL(Level A)	“S” LEVEL(Level B)	(G) LEVEL(Level C)
Temperature cycling ↓ Accelerated steady state aging @48h ↓ Solderability	Temperature cycling ↓ Accelerated steady state aging @96h ↓ Solderability	Temperature cycling ↓ Accelerated steady state aging @96h ↓ Resistance to moisture ↓ Terminal strength ↓ Solderability ↓ Resistance to soldering heat ↓ Steeping ↓ Bending strength

CAPACITANCE AND RATED VOLTAGE RANGE

CC41

Case Size	0402		0603			0805			1206				1210		
Rated Voltage(V)	50	100	50	100	250	50	100	250	50	100	250	500	100	250	500
101															
121															
151															
181															
221															
271															
331															
391															
471															
561															
681															
821															
102															
122															
152															
182															
222															
272															
332															
392															
472															
562															
682															
822															
103															
123															
153															
183															
223															
273															
333															
393															
473															
563															
683															
823															
104															

CG

CAPACITANCE AND RATED VOLTAGE RANGE

CT41G

Case Size	0402		0603			0805				1206					1210			
Rated Voltage(V)	25	50	25	50	100	25	50	100	250	25	50	100	250	500	25	50	100	250
102																		
122																		
152																		
182																		
222																		
272																		
332																		
392																		
472																		
562																		
682																		
822																		
103																		
123																		
153																		
183																		
223																		
273																		
333																		
393																		
473																		
563																		
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124																		
154																		
184																		
224																		
274																		
334																		
394																		
474																		
564																		
684																		
824																		
105																		
125																		
155																		
185																		
225																		
335																		
475																		
685																		
106																		
156																		
226																		

2R1

2C1