

HIGH-Q MULTILAYER CERAMIC CHIP CAPACITOR



FEATURES

Capacitance: 0.1pF ~0.1μF
 Voltage: 25V~3600V
 Size:0402~4040
 Operating temperature : -55°C~+125°C
 Lead-free terminations, ROHS and REACH Compliant

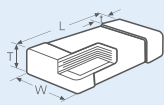
» APPLICATIONS

Applications include RF power amplifiers, low noise amplifiers.

» ORDERING INFORMATION

CC41AC	0805	101	J	251	N	T
Series	Case Size	Capacitance	Capacitance Tolerance	Rated Voltage	Termination Finish	Packaging
CC41AC	0402 1210 0505 1111 0603 2225 0805 3838	First two digits represent significant figures.Third digit specifies number of zeros.	B=±0.1pF C=±0.25pF D=±0.5pF F=±1% G=±2% J=±5%	First two digits represent significant figures.Third digit specifies number of zeros.	N=100%Sn	T=7"Reel

» DIMENSIONS

		Unit:mm								
Appearance	Case Size	0402	0505	0603	0805	1206	1210	1111	2225	3838
	L	1.00±0.15	1.40±0.40	1.60±0.25	2.00±0.30	3.18±0.25	3.18±0.25	2.80±0.50	5.70±0.80	9.70±0.50
	W	0.50±0.15	1.40±0.40	0.80±0.25	1.25±0.30	1.58±0.25	2.41±0.25	2.80±0.50	6.35±0.80	9.70±0.50
	Tmax	0.65	1.45	1.00	1.40	1.27	1.52	2.60	4.50	4.50
	t	0.25±0.15	0.40±0.30	0.40±0.25	0.50±0.35	0.50±0.25	0.50±0.25	0.45±0.30	0.80±0.60	1.00±0.60

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» ELECTRICAL CHARACTERISTICS

No.	Dissipation Factor	Dielectric Strength	Insulation Resistance (25°C)	Q or Dissipation Factor $C \geq 3\text{pF}$	ESR $C \geq 3\text{pF}$	Temperature Characteristic
CC41AC	$\text{tg } \delta \leq 10 \times 10^{-4}$	$U_R \leq 100\text{V } 2.5U_R$ $100\text{V} < U_R \leq 200\text{V } 1.5U_R + 100\text{V}$ $200\text{V} < U_R \leq 500\text{V } 1.3U_R + 100\text{V}$ $U_R > 500\text{V } 1.3U_R$	$IR \geq 10^5 \text{M}\Omega$	0402 $Q \times f \times C \geq 400$ 0505 $Q \times f \times C \geq 500$ 0603 $Q \times f \times C \geq 600$ 0805、1206、1210 & 1111 $Q \times f \times C \geq 800$ 2225 $Q \times f \times C \geq 1000$	0402 $\text{ESR} \leq 0.40\Omega$ 0505,0603 $\text{ESR} \leq 0.35\Omega$ 0805 $\text{ESR} \leq 0.30\Omega$ 1206,1210,1111,2225 $\text{ESR} \leq 0.25\Omega$	-55°C~125°C

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» CAPACITANCE AND RATED VOLTAGE RANGE

CC41AC ((0±30)ppm/K)

Case Size	0402		0505		0603	0805	1206			1111				1210			2225					4040					
Rated Voltage(V)	25	50	150	250	250	250	100	200	500	50	100	200	500	100	200	500	300	500	1200	1500	2500	200	500	1000	1600	2500	3600
0R1																											
0R2																											
0R3																											
0R4																											
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6R2																											
6R8																											
7R5																											
8R2																											
9R1																											
100																											
110																											
120																											
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180																											
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220																											
240																											
270																											
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330																											
360																											
390																											
430																											
470																											
510																											
560																											
620																											
680																											
750																											
820																											

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Rated Voltage(V)	25	50	150	250	250	250	100	200	500	50	100	200	500	100	200	500	300	500	1200	1500	2500	200	500	1000	1600	2500	3600
910																											
101																											
111																											
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512																											