Radial MLCC Multilayer Ceramic Capacitors

Feature

- Miniature size, wide capacitance, tape and reel packaging available for auto-placement.
- Coating by epoxy resin, creales the excellent humidity resistance and preventsbody trom damaging during soldering and washing.
- Industry standard size and vanous load spacing available.

Specification

T.C	NPO/COG	X7R(B)	Y5V(Y/F)	Z5U(E)		
Dielectric type	Stable Class I Dielectric	Stable Cl	assII Dielectric			
Electrical properties	With negligible depndence of electrical pro-perties on temperature、voltage、 frequency and time	With predictable change of properties with temperature、voltage、 frequency and time,this dielectric is ferroelectric and offers higher capacitance ranges than Class I.	With high twist dielectric constant and greater variation properties with temperature a test conditions, very high capacitance per unit volume			
Application	Use in ciprcuits reoiring stable performance	Use as blocking, coupling, By-passing discriminating element.	Suited for By-passing and coupling application such as sto power and memory circuit			
Capacitance range	1pF~10nF	100pF~5uF	lnF~14.7uf			
Operating temperature	0±30PPm/c -55℃~+125℃	±15% -55°C~+125°C	+30%~-80% +22%~-56 -25°C~+85°C -10°C~+85			

• Electrical Properties standard

Item	Test standard						
	NPO/CG/GH/RH/UJ/SL	X7R(B)	Z5U(E)	Y5V(Y/F)			
Capacitance	±5%	±10%	+80-20%	±20%			
Dissipation	<0.15%	<3.5%	<5%	<7.5%(200nF)			
Factor				<10% (220~470nF)			
				<15%(470~1000nF)			
Insulation	<10nF	<25nF	<25nF	<25nF			
Resistance	IR<1000C0M Ω	IR>25nF	IR>25nF	IR>25nF			
	C>10nF	C>25Nf	C>25Nf	C>25Nf			
	R • C>100S	R • C>100S	R • C>100S	R • C>100S			
Withstanding	2.5 rated voltage	2.5 rated voltage	2.5 rated voltage	2.5 rated voltage			
Voltage							
		Test Condition					
Test Frequency	1 MHZ (C>1000PF	1KHz	1KHz	1KHz			
	1KHz)						
Test Voltage of	$1\pm0.2V$	$1\pm0.2V$	$0.3\pm0.2\mathrm{V}$	$0.3\!\pm\!0.2\mathrm{V}$			
Cap.&D.F							
Test Voltage of	Rated Voltage	Rated Voltage	Rated Voltage	Rated Voltage			
IR							
Temperature	10~25℃	10~25°C	10~25℃	10~25℃			
Humidity	<75%	<75%	<75%	<75%			

■Part number:

Part nu	mber:			:				
CT4		0805	Y	104	М	500	PF3	R
\downarrow		\downarrow	\downarrow	\downarrow	↓	\downarrow	\downarrow	\downarrow
Α		B	С	D	E	F	G	Н

A: **Product Type**

D :							
Capacitance							
First two digits							
are	significant						
third	digit is						
number of zeros.							
For Example:							
104=100000pF							
5R6=	5.6pF						

F:	
Rated Voltage	
The code meaning	is
same as capacitance.	
For Example:	
250=25V	
500=50V	
101=100V	

B:						
Unit : Inches						
Cmos Chip Size (LxW						
Code	Chip					
0805	0.08x0.05					
1206	0.12x0.06					
1210	0.12x0.10					
1812	0.18x0.12					
2225	0.22x0.25					
3035	0.30x0.35					

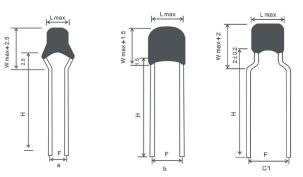
C :					
Dielectric					
Ν	COG/NPO				
В	X7R				
Y	Y5V				
Е	Y5U/Z5U				

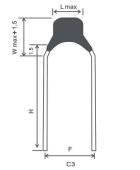
E :						
Tolerance						
B	±0.10pF					
С	±0.25pF					
D	±0.5pF					
F	±1.0%					
G	±2.0%					
J	±5.0%					
K	±10%					
М	±20%					
N	±30%					
S	+50% -20%					
Z	+80% -20%					
Р	+100% -0%					
B.C.	D for					
C<10pF						
NPC						
	D.F.G.J.K.M.					
	: K.M.S.Z.					
Y5V	': M.S.Z.P.					

Ammo PF3 5.08mm	G:							
Ammo PF3 5.08mm	Packaging Style							
PF3 5.08mn	Ammo	PF1	2.54mm					
F1 2.54mn	Ammo	PF3	5.08mm					
		F1	2.54mm					
F2 4.57mn		F2	4.57mm					
Bulk F3 5.08mn	Bulk	F3	5.08mm					
F4 7.50mn		F4	7.50mm					
F5 3.50mm		F5	3.50mm					

H:						
Pb						
R	RoHS					

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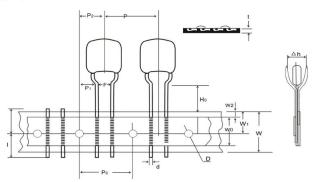
Ļ	Φ0.45±0.05

S C. I.	Channel		Dim	ensions (1	mm)		Capacitance(pF)				
Size Code Shape	F (±0.5)	Hmin (±1)	Lmax	Wmax	Tmax	voltage	NPO	X7R	Y5V		
0805	a b C1 C2 C3	2.54 2.54 5.08 5.08 5.08	5.0 10.0 5.0/10.0 5.0 5.0/10.0	4.2	3.8	3.8	25V 50V 100V	0R5~332 0R5~222 0R5~102	331~104 331~104 331~104	103~105 103~684	
1206	a b Cl	2.54 3.50 5.08	10.0	5.0	4.5	3.8	25V 50V 100V	0R5~682 0R5~472 0R5~392	102~224 102~104 102~105	103~125 103~105	
1210	b C1	3.50 5.08	10.0	7.6	5.5	3.8	25V 50V 100V	0R5~103 0R5~472 0R5~392	102~334 102~224 102~105	104~155	
1812	b	4.57	10.0	8.5	8.5	3.8	25V 50V 100V	561~103 561~682 561~472	103~474 103~334 103~105	154~335	
2225	b	5.50	10.0	10.5	9.5	4.2	25V 50V 100V	102~223 102~223 102~103	103~105 103~105 103~474	684~475	
3035	b	7.50	10.0	12.5	10.5	4.2	25V 50V 100V	102~104 102~473 102~333	103~225 103~205 103~105	105~106 105~685	

*Lead spacing determined by customer requirements.

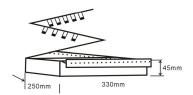
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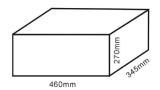
■Radial Leads MLCC Packaging Style



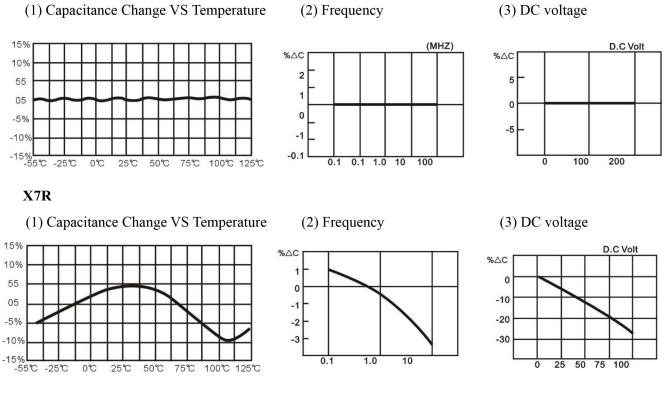
DESCRIPTION	SYMBOL	DIMENSIONS(mm)	REMARKS
PITCH OF COMPONENT	Р	12.7±1.0	
FEEDHOLD PITCH	РО	12.7±0.3	CUMULATIVE PITCH ERROR: ±1.0mm/20 PITCHES
FEED HOLD CENTER TO LEAD	P1	3.85±0.7	FOR F:5.08, 5.1±0.7 FOR F:2.54
FEED HOLD CENTER TO COMPONENT CENTER	P2	8.35±1.3	
LEAD TO LEAD SPACING	F	5.08+0.8/-0.2 OR2.5+0.8/-0.2	TO LEAD TIP WITHIN TOL
COMPONENT ALIGNMENT, F-R	$\triangle H$	2.0max	THE ALIGNMENT FORM THE CENTER OF THE LEAD IS ±1.0mm
TAPE WIDTH	W	18.0±1	
ADHESIVE TAPE WIDTH	W0	12.0±1	
HOLE POSITION	W1	9.0±0.5	
ADHESIVE TAPE POSITION	W2	3.0max	ADHESIVE TAPE MUST NOT PROTRUDE FROM BADE PAPER
LEAD-WIRE CLINCH HEIGHT	H0	15-20±0.5	6.5<=H0-W1
COMPONENT HEIGHT	H1	32.25max	
FEED HOLE DIAMETER	D0	4.0±0.3	
TOTAL TAPE THICKNESS	Т	0.7±0.2	

Ammo Packaging



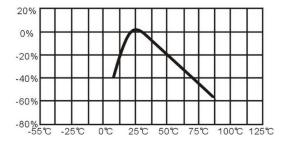


Capacitance Change VS Temperature Characteristic ; Voltage ; Frequency Profiles NPO

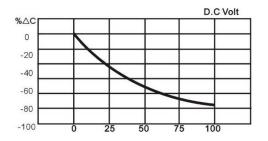


Z5U

(1) Capacitance Change VS Temperature



(2) DC voltage



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