

VKT - Radial Multilayer Ceramic Capacitors

■ How To Order Of Radial Leads MLCC :

VKT	---	0805	Y	104	M	500	PF3
↓		↓	↓	↓	↓	↓	↓
A		B	C	D	E	F	G

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

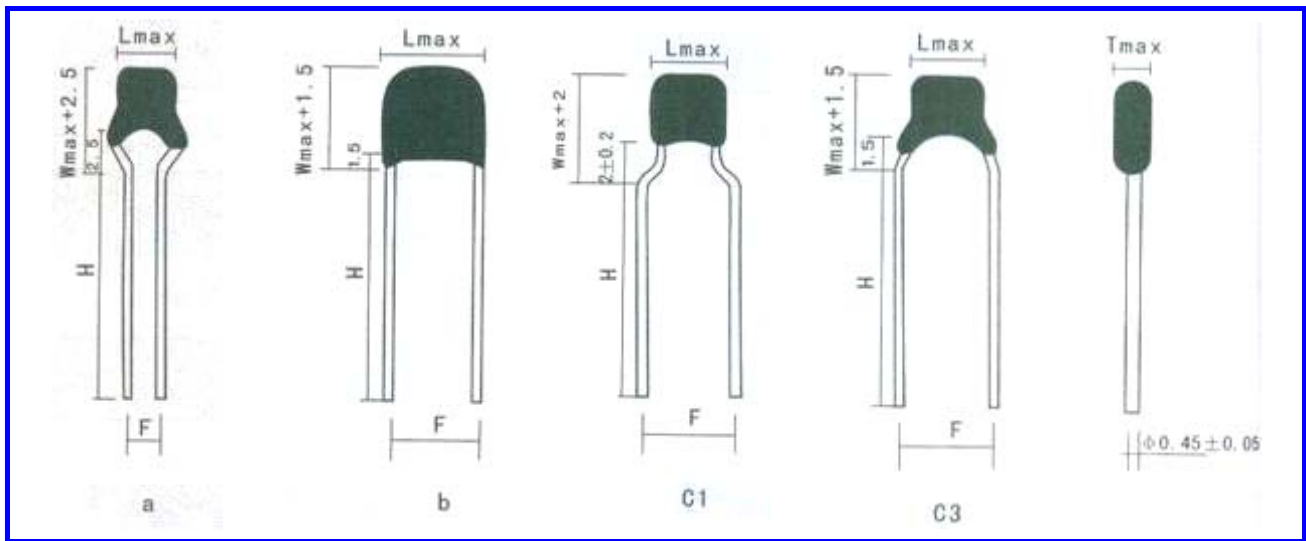
B:	
Unit : Inches	
Cmos Chip Size (LxW)	
Code	Chip
0805	0.08x0.05
1206	0.12x0.06
1210	0.12x0.10
1812	0.18x0.12
2225	0.22x0.25
3035	0.30x0.35

E:	
Tolerance	
B	±0.10pF
C	±0.25pF
D	±0.5pF
F	±1.0%
G	±2.0%
J	±5.0%
K	±10%
M	±20%
N	±30%
S	+50% -20%
Z	+80% -20%
P	+100% -0%
B.C.D for C<10pF NPO: B.C.D.F.G.J.K.M. X7R: K.M.S.Z. Y5V/Z5U: M.S.Z.P.	

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

C:	
Dielectric	
N	COG (NPO)
B	X7R
Y	Y5V
E	Z5U

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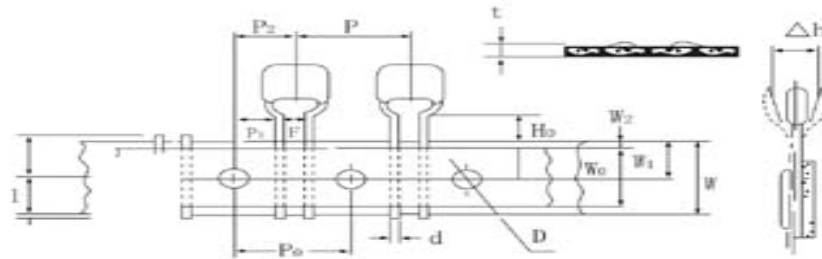


Size Code	Shape	Dimensions (mm)					voltage	Capacitance(pF)		
		F (±0.5)	Hmin (±1)	Lmax	Wmax	Tmax		COG(NPO)	X7R	Y5V (Z5U)
0805	a	2.54	5.0				25V 50V 100V	0R5~332 0R5~222 0R5~102	331~104 331~104 331~104	103~105 103~684
	b	2.54	10.0							
	C1	5.08	5.0/10.0	4.2	3.8	3.8				
	C2	5.08	5.0							
	C3	5.08	5.0/10.0							
1206	a	2.54					25V 50V 100V	0R5~682 0R5~472 0R5~392	102~224 102~104 102~105	103~125 103~105
	b	3.50	10.0	5.0	4.5	3.8				
	C1	5.08								
1210	b	3.50	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
	C1	5.08								
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
		5.50	10.0	10.5	9.5	4.2				
		5.50	10.0	10.5	9.5	4.2				
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
		7.50	10.0	12.5	10.5	4.2				
		7.50	10.0	12.5	10.5	4.2				
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 and lead length (Hmax. 25 mm) determined by customer requirements.

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■ Radial Leads MLCC Packaging Style



DESCRIPTION	SYMBOL	DIMENSIONS(mm)	REMARKS
PITCH OF COMPONENT	P	12.7±1.0	
FEEDHOLD PITCH	P0	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 OR 2.5+0.8/-0.2	TO LEAD TIP WITHIN TOL
COMPONENT ALIGNMENT, F-R	ΔH	2.0max	THE ALIGNMENT FROM 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	T	0.7±0.2	

■ Ammo Packaging



Note: Specification are subject to change without notice.