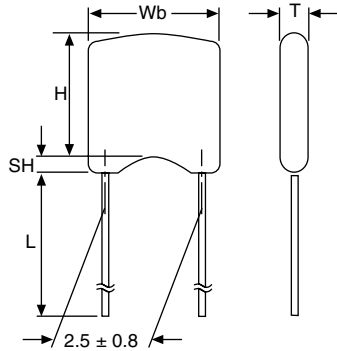
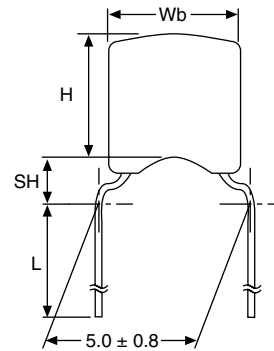


# Multilayer Ceramic Dipped Radial K10 Capacitors

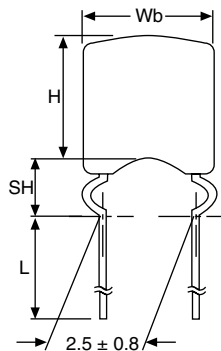
**DIMENSIONS**


**L2**  
Component outline for  
Lead spacing  $2.5 \text{ mm} \pm 0.8 \text{ mm}$   
(straight leads)

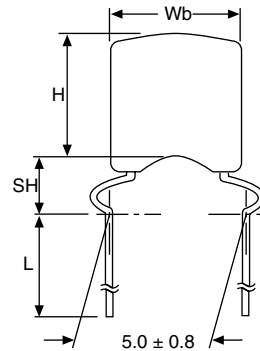


**H5**  
Component outline for  
Lead spacing  $5.0 \text{ mm} \pm 0.8 \text{ mm}$   
(flat bent leads)

L2 and H5 are preferred styles



**K2**  
Component outline for  
Lead spacing  $2.5 \text{ mm} \pm 0.8 \text{ mm}$   
(outside kink)



**K5**  
Component outline for  
Lead spacing  $5.0 \text{ mm} \pm 0.8 \text{ mm}$   
(outside kink)



**RoHS**  
COMPLIANT

CAPACITOR DIMENSIONS AND WEIGHT								
SIZE	$W_{b\text{max.}}$	$H_{\text{max.}}$	$T_{\text{max.}}$	MAX. SEATING HEIGHT (SH)				WEIGHT (g)
				L2	H5	K2	K5	
10	3.6 (0.14)	3.6 (0.14)	2.3 (0.09)	1.58 (0.062)	2.54 (0.100)	3.50 (0.140)	3.50 (0.140)	≈ 0.10

**Notes**

- Bulk packed types have a standard lead length  $L = 25.4 \text{ mm}$  (1.0") minimum
- Dimensions between parentheses are in inches
- Thickness is defined as T

QUICK REFERENCE DATA				
DESCRIPTION	VALUE			
Capacitance range	10 to 1000 pF		100 pF to 0.1 μF	
Rated DC voltage	50 V	100 V	50 V	100 V
Tolerance on capacitance	± 5 %/± 10 %		± 10 %/± 20 %	
Dielectric code	C0G (NP0)		X7R	
			Y5V	

ORDERING INFORMATION									
K	103	K	10	X7R	F	5	3	H	5
PRODUCT TYPE	CAPACITANCE CODE	CAPACITANCE TOLERANCE	SIZE CODE	TEMP. CHAR.	RATED VOLTAGE	LEAD DIAMETER	LEAD LENGTH/PACKAGING	LEAD STYLE	LEAD SPACING
K = Mono-Kap	Two significant digits followed by the number of zeros. example: 103 = 10 000 pF	J = ± 5 % K = ± 10 % M = ± 20 % Z = + 80/- 20 %	Ref. mechanical spec.	C0G X7R Y5V	F = 50 V <sub>DC</sub> H = 100 V <sub>DC</sub>	5 = 0.5 mm (0.020")	3 = bulk, with lead length of 30 ± 5.0 (1.25") T = Tape and Reel U = Ammo pack	L = Straight Lead H = High Seated assy	2 = 2.5 (0.100") 5 = 5.0 (0.200")



<b>CAPACITANCE RANGE CHART C0G (NP0) DIELECTRIC</b>			
SIZE		10	
RATED VOLTAGE		50	100
VALUE	CODE		
10 pF	100	•	•
12 pF	120	•	•
15 pF	150	•	•
18 pF	180	•	•
22 pF	220	•	•
27 pF	270	•	•
33 pF	330	•	•
39 pF	390	•	•
47 pF	470	•	•
56 pF	560	•	•
68 pF	680	•	•
82 pF	820	•	•
100 pF	101	•	•
120 pF	121	•	•
150 pF	151	•	•
180 pF	181	•	•
220 pF	221	•	•
270 pF	271	•	•
330 pF	331	•	•
390 pF	391	•	•
470 pF	471	•	•
560 pF	561	•	•
680 pF	681	•	•
820 pF	821	•	•
1000 pF	102	•	•
1200 pF	122		
1500 pF	152		
1800 pF	182		
2200 pF	222		
2700 pF	272		
3300 pF	332		
3900 pF	392		
4700 pF	472		
5600 pF	562		
6800 pF	682		
8200 pF	822		
0.01 μF	103		

<b>Y5V DIELECTRIC</b>			
SIZE		10	
RATED VOLTAGE		50	
VALUE	CODE		
0.01 μF	103	•	
0.015 μF	153	•	
0.022 μF	223	•	
0.033 μF	333	•	
0.047 μF	473	•	
0.068 μF	683	•	
0.10 μF	104	•	
0.15 μF	154	•	
0.22 μF	224		
0.33 μF	334		
0.47 μF	474		
0.68 μF	684		
1.0 μF	105		

<b>X7R DIELECTRIC</b>			
SIZE		10	
RATED VOLTAGE		50	100
VALUE	CODE		
100 pF	101	•	•
120 pF	121	•	•
150 pF	151	•	•
180 pF	181	•	•
220 pF	221	•	•
270 pF	271	•	•
330 pF	331	•	•
390 pF	391	•	•
470 pF	471	•	•
560 pF	561	•	•
680 pF	681	•	•
820 pF	821	•	•
1000 pF	102	•	•
1200 pF	122	•	•
1500 pF	152	•	•
1800 pF	182	•	•
2200 pF	222	•	•
2700 pF	272	•	•
3300 pF	332	•	•
3900 pF	392	•	•
4700 pF	472	•	•
5600 pF	562	•	•
6800 pF	682	•	•
8200 pF	822	•	•
0.01 μF	103	•	•
0.012 μF	123	•	
0.015 μF	153	•	
0.018 μF	183	•	
0.022 μF	223	•	
0.027 μF	273	•	
0.033 μF	333	•	
0.039 μF	393	•	
0.047 μF	473	•	
0.056 μF	563	•	
0.068 μF	683	•	
0.082 μF	823	•	
0.10 μF	104	•	
0.15 μF	154		
0.22 μF	224		
0.33 μF	334		
0.47 μF	474		
0.68 μF	684		
1.0 μF	105		



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