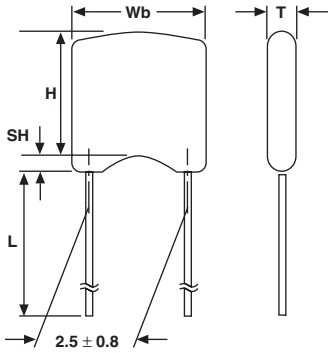
Dipped Radial Multilayer Ceramic Capacitors

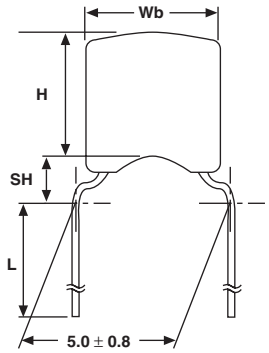
RoHS COMPLIANT

DIMENSIONS



L2

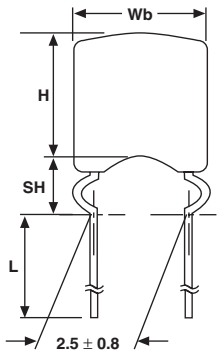
Component outline for
Lead spacing 2.5 ± 0.8 mm
(straight leads)



H5

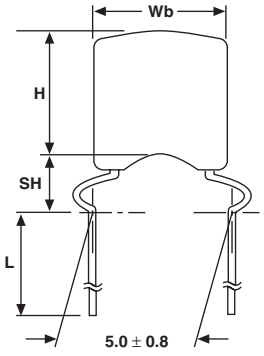
Component outline for
Lead spacing 5.0 ± 0.8 mm
(flat bent leads)

L2 and H5 are preferred styles



K2

Component outline for
Lead spacing 2.5 ± 0.8 mm
(outside kink)



K5

Component outline for
Lead spacing 5.0 ± 0.8 mm
(outside kink)

CAPACITOR DIMENSIONS AND WEIGHT

SIZE	Wb_{MAX}	H_{MAX}	T_{MAX}	MAX. SEATING HEIGHT (SH)				WEIGHT (g)
				L2	H5	K2	K5	
15	4.0 (0.15)	4.0 (0.15)	2.5 (0.100)	5.58 (0.220)	6.50 (0.256)	7.50 (0.295)	7.50 (0.295)	≈ 0.15
20	5.0 (0.20)	5.0 (0.20)	3.2 (0.13)	6.58 (0.259)	7.50 (0.295)	8.50 (0.335)	8.50 (0.335)	≈ 0.16

Note

1. Bulk packed types have a standard lead length L = 25.4 mm (1.0 inch) minimum
2. Dimensions between parentheses are in inches
3. Thickness is defined as T

QUICK REFERENCE DATA						
DESCRIPTION	**VALUE**					
Capacitance range	10 to 6800 pF		100 pF to 1.0 µF		0.1 µF to 1.0 µF	
Rated DC voltage	50 V	100 V	50 V	100 V	50 V	100 V
Tolerance on capacitance	± 5 % / ± 10 %		± 10 % / ± 20 %		+ 80 / - 20 %	
Dielectric Code	C0G (NP0)		X7R		Y5V	

ORDERING INFORMATION

K	103	K	15	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. mechani-cal spec.	C0G X7R Y5V	F = 50 V_{DC} H = 100 V_{DC}	5 = 0.5mm (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")

CAPACITANCE RANGE CHART
C0G (NP0) DIELECTRIC

SIZE		15		20	
RATED VOLTAGE		50	100	50	100
VALUE	CODE				
10pF	100	■	■		
12pF	120	■	■		
15pF	150	■	■		
18pF	180	■	■		
22pF	220	■	■		
27pF	270	■	■		
33pF	330	■	■		
39pF	390	■	■		
47pF	470	■	■		
56pF	560	■	■		
68pF	680	■	■		
82pF	820	■	■		
100pF	101	■	■		
120pF	121	■	■		
150pF	151	■	■		
180pF	181	■	■		
220pF	221	■	■		
270pF	271	■	■		
330pF	331	■	■		
390pF	391	■	■		
470pF	471	■	■		
560pF	561	■	■		
680pF	681	■	■		
820pF	821	■	■		
1000pF	102	■			■
1200pF	122	■			■
1500pF	152	■			■
1800pF	182	■			■
2200pF	222	■			■
2700pF	272			■	■
3300pF	332			■	■
3900pF	392			■	■
4700pF	472			■	■
5600pF	562			■	■
6800pF	682			■	
8200pF	822			■	
0.01µF	103				

Y5V DIELECTRIC

SIZE		15		20	
RATED VOLTAGE		50	100	50	100
VALUE	CODE				
0.01µF	103	■	■		
0.015µF	153	■	■		
0.022µF	223	■	■		
0.033µF	333	■	■		
0.047µF	473	■	■		
0.068µF	683	■	■		
0.10µF	104	■	■		
0.15µF	154	■			■
0.22µF	224	■			■
0.33µF	334	■			
0.47µF	474			■	
0.68µF	684			■	
1.0µF	105			■	

X7R DIELECTRIC

SIZE		15		20	
RATED VOLTAGE		50	100	50	100
VALUE	CODE				
100pF	101	■	■		
120pF	121	■	■		
150pF	151	■	■		
180pF	181	■	■		
220pF	221	■	■		
270pF	271	■	■		
330pF	331	■	■		
390pF	391	■	■		
470pF	471	■	■		
560pF	561	■	■		
680pF	681	■	■		
820pF	821	■	■		
1000pF	102	■	■		
1200pF	122	■	■		
1500pF	152	■	■		
1800pF	182	■	■		
2200pF	222	■	■		
2700pF	272	■	■		
3300pF	332	■	■		
3900pF	392	■	■		
4700pF	472	■	■		
5600pF	562	■	■		
6800pF	682	■	■		
8200pF	822	■	■		
0.01µF	103	■	■		
0.012µF	123	■	■		
0.015µF	153	■	■		
0.018µF	183	■	■		
0.022µF	223	■	■		
0.027µF	273	■			■
0.033µF	333	■			■
0.039µF	393	■			■
0.047µF	473	■			■
0.056µF	563	■			■
0.068µF	683	■			■
0.082µF	823	■			■
0.10µF	104	■			■
0.15µF	154			■	■
0.22µF	224			■	
0.33µF	334			■	
0.47µF	474			■	
0.68µF	684			■	
1.0µF	105			■	

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