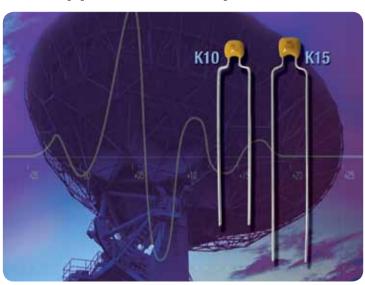




K10 Series Multilayer Ceramic Dipped Radial Capacitors



KEY BENEFITS

- High capacitance in small size
- · Cost effective solution
- Compliant to RoHS Directive 2011/65/EU, and REACH Regulation EC 1907/2006

KEY SPECIFICATIONS

- Capacitance range: Class 1 C0G range 10 pF to 1 nF;
 Class 2 X7R range 100 pF to 100 nF; Class 2 Y5V range 10 nF to 150 nF
- Dielectric strength: 250 % of rated voltage
- Insulation resistance: ≥ 10 000 MΩ
- IEC 60384-9 Class 2
- IEC 60384-8 Class 1 and EIA 198
- Operating Temperature: C0G, X7R: 55 °C to + 125 °C; Y5V: 30 °C to + 85 °C

APPLICATIONS

- Bypassing
- Coupling/decoupling
- Signal comparison

RESOURCES

Datasheet: Mono-Kap® - http://www.vishay.com/doc?45183

1/2

For technical questions contact <u>cmll@vishay.com</u>

One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components





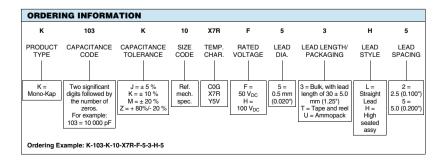
Dipped Radial Multilayer Ceramic K10 Capacitors

SI	•	ECTRIC 10		
RATED VOLTAGE			Ī	
VALUE	CODE	50	100	
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	•		
000 pF	102	•		
200 pF	122			
500 pF	152			
800 pF	182			
200 pF	222			
700 pF	272			
300 pF	332			
3900 pF	392			
1700 pF	472			
5600 pF	562			
800 pF	682			
3200 pF	822			
0.01 μF	103			

5600 pF	562					
6800 pF	682					
8200 pF	822					
0.01 μF	103					
Y5V DIELECTRIC						
SIZE 10						
RATED VOLTAGE		50				
VALUE	CODE	30				
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					

X7R DIELECTRIC						
SI	ZE	10				
RATED VOLTAGE						
VALUE	CODE	50	100			
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	•				
0.12 μF	124					
0.15 μF	154					
0.22 μF	224					
0.33 μF	334					
0.47 μF	474					
0.68 μF	684					
1.0 μF	105					

QUICK REFERENCE DATA								
DESCRIPTION	VALUE							
Capacitance range	10 pF to	1000 pF	100 pF to 0.1 μF		0.01 μF to 0.15 μF			
Rated DC voltage	50 V	100 V	50 V	100 V	50 V			
Tolerance on capacitance	± 5 %, ± 10 %		± 10 %, ± 20 %		+ 80 %/- 20 %			
Dielectric Code	C0G (NP0)		X7R		Y5V			



Revision 16-Nov-09