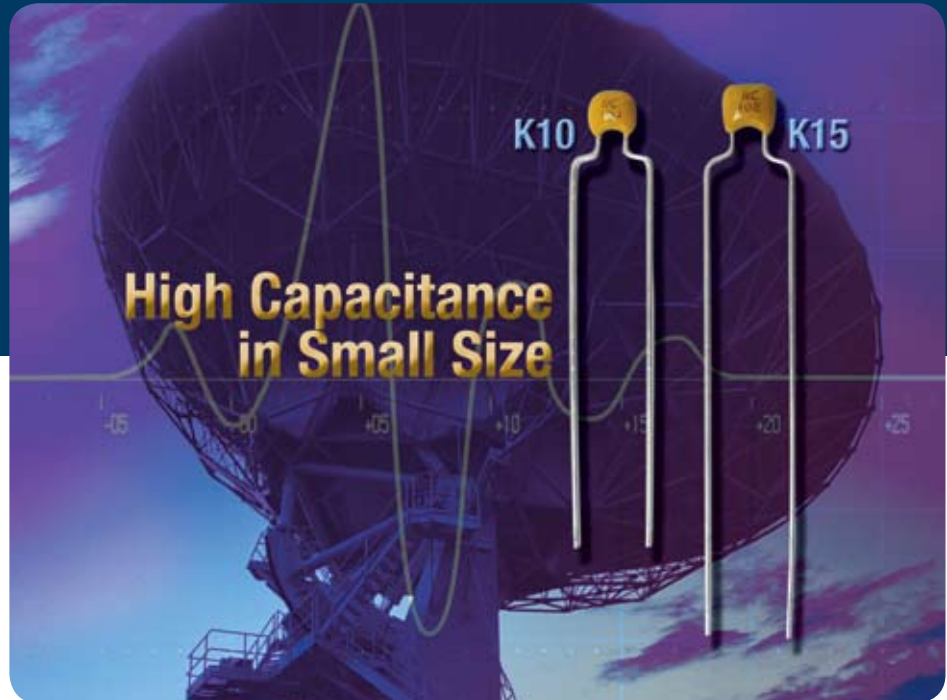




MONO-KAP[®]

Radial Leaded Multilayer Ceramic Capacitors



Multilayer Ceramic Dipped Radial Capacitor

K10 Series

KEY BENEFITS

- High capacitance in small size
- Cost effective solution
- WEEE/RoHS compliance, acc. EU directive 2002/95/EC

KEY SPECIFICATIONS

- Capacitance range: Class 1 COG 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: $\geq 10000 \text{ M}\Omega$
- IEC 60384-9 Class 2
- IEC 60384-8 Class 1 and EIA 198
- Operating temperature:
COG, X7R...: - 55 °C to + 125 °C
Y5V: - 30 °C to + 85 °C

APPLICATIONS

- Bypassing
- Coupling/decoupling
- Signal comparison

Datasheet is available on our web site at www.vishay.com
for Mono-Kap[®] - <http://www.vishay.com/doc?45175>

Dipped Radial Multilayer Ceramic Capacitors

**CAPACITANCE RANGE CHART
COG (NPO) DIELECTRIC**

RATED VOLTAGE VALUE	SIZE			
	50	100	150	200
10 µF	100	*	*	*
12 µF	120	*	*	*
15 µF	150	*	*	*
18 µF	180	*	*	*
22 µF	220	*	*	*
27 µF	270	*	*	*
33 µF	330	*	*	*
39 µF	390	*	*	*
47 µF	470	*	*	*
56 µF	560	*	*	*
68 µF	680	*	*	*
82 µF	820	*	*	*
100 µF	1000	*	*	*
120 µF	1200	*	*	*
150 µF	1500	*	*	*
180 µF	1800	*	*	*
220 µF	2200	*	*	*
270 µF	2700	*	*	*
330 µF	3300	*	*	*
390 µF	3900	*	*	*
470 µF	4700	*	*	*
560 µF	5600	*	*	*
680 µF	6800	*	*	*
820 µF	8200	*	*	*
1000 µF	10000	*	*	*
1200 µF	12000	*	*	*
1500 µF	15000	*	*	*
1800 µF	18000	*	*	*
2200 µF	22000	*	*	*
2700 µF	27000	*	*	*
3300 µF	33000	*	*	*
3900 µF	39000	*	*	*
4700 µF	47000	*	*	*
5600 µF	56000	*	*	*
6800 µF	68000	*	*	*
8200 µF	82000	*	*	*
10000 µF	100000	*	*	*

YSV DIELECTRIC

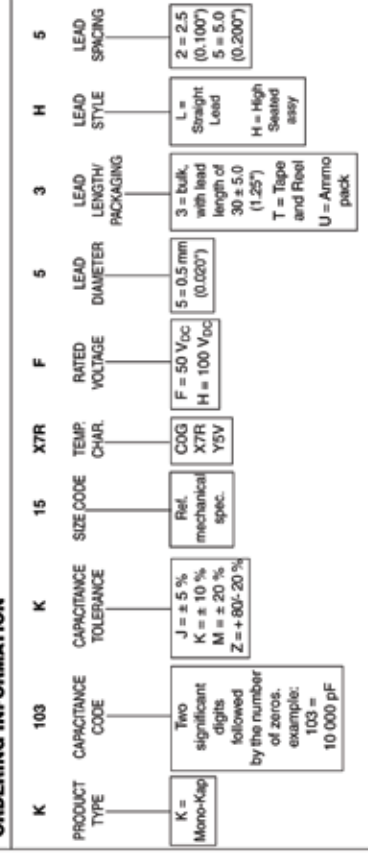
RATED VOLTAGE VALUE	SIZE			
	50	100	150	200
0.01 µF	*	*	*	*
0.015 µF	*	*	*	*
0.022 µF	*	*	*	*
0.033 µF	*	*	*	*
0.047 µF	*	*	*	*
0.068 µF	*	*	*	*
0.10 µF	*	*	*	*
0.15 µF	*	*	*	*
0.22 µF	*	*	*	*
0.33 µF	*	*	*	*
0.47 µF	*	*	*	*
0.68 µF	*	*	*	*
1.0 µF	*	*	*	*

X7R DIELECTRIC

RATED VOLTAGE VALUE	SIZE			
	50	100	150	200
100 µF	101	*	*	*
120 µF	121	*	*	*
150 µF	151	*	*	*
180 µF	181	*	*	*
220 µF	221	*	*	*
270 µF	271	*	*	*
330 µF	331	*	*	*
390 µF	391	*	*	*
470 µF	471	*	*	*
560 µF	561	*	*	*
680 µF	681	*	*	*
820 µF	821	*	*	*
1000 µF	102	*	*	*
1200 µF	122	*	*	*
1500 µF	152	*	*	*
1800 µF	182	*	*	*
2200 µF	222	*	*	*
2700 µF	272	*	*	*
3300 µF	332	*	*	*
3900 µF	392	*	*	*
4700 µF	472	*	*	*
5600 µF	562	*	*	*
6800 µF	682	*	*	*
8200 µF	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	*	*	*

DESCRIPTION	VALUE			
	50 V	100 V	100 V	100 V
Capacitance range	10 pF to 6800 pF	100 pF to 1.0 µF	0.1 µF to 1.0 µF	100 V
Rated DC voltage	50 V	100 V	100 V	50 V
Tolerance on capacitance	± 5 %/± 10 %			± 10 %/± 20 %
Dielectric Code	COG (NPO)			X7R
				YSV

ORDERING INFORMATION



Revision 18-Sep-06

NOTE: Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc. or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right. The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.