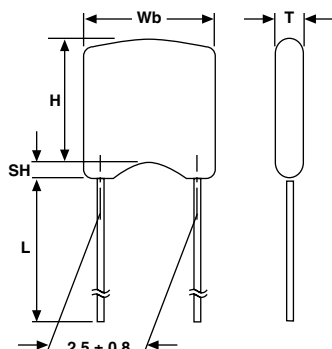
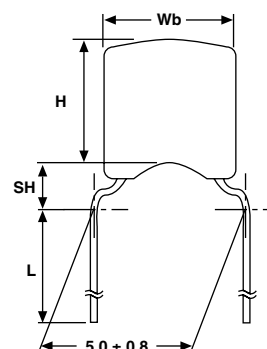


Multilayer Ceramic Dipped Radial Capacitors 50 V_{DC} and 100 V_{DC}

DIMENSIONS

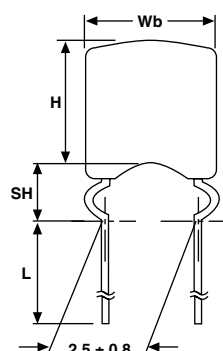

L2

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

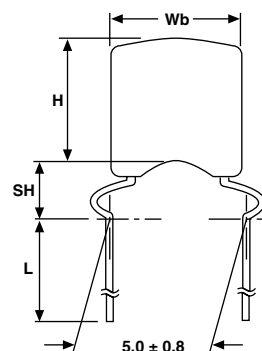

H5

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

L2 and H5 are preferred styles


K2

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


K5

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



RoHS
COMPLIANT

CAPACITOR DIMENSIONS AND WEIGHT in millimeter (inches)								
SIZE	Wb _{max.}	H _{max.}	T _{max.}	MAX. SEATING HEIGHT (SH)				WEIGHT (g)
				L2	H5	K2	K5	
15	4.0 (0.157)	4.0 (0.157)	2.5 (0.098)	1.58 (0.062)	2.54 (0.100)	3.50 (0.140)	3.50 (0.140)	≈ 0.15
20	5.0 (0.197)	5.0 (0.197)	3.2 (0.126)	1.58 (0.062)	2.54 (0.100)	3.50 (0.140)	3.50 (0.140)	≈ 0.16

Note

- Bulk packed types have a standard lead length L = 25.4 mm (1.0") minimum
- Thickness is defined as "T"

QUICK REFERENCE DATA

DESCRIPTION	VALUE					
Capacitance range	10 pF to 8200 pF		100 pF to 1.0 μ F		0.1 μ F to 1.0 μ F	
Rated DC voltage	50 V	100 V	50 V	100 V	50 V	100 V
Tolerance on capacitance	$\pm 5\%$, $\pm 10\%$		$\pm 10\%$, $\pm 20\%$		+ 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 DIA.	LEAD LENGTH/ PACKAGING	LEAD STYLE	LEAD SPACING
K = Mono-Kap	Two significant digits followed by the number of zeros. For example: 103 = 10 000 pF	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$ Z = + 80 %/- 20 %	Ref. mech. spec.	C0G X7R Y5V	F = 50 V _{DC} H = 100 V _{DC}	5 = 0.5 mm (0.20")	3 = Bulk, with lead length of 30 mm ± 5.0 mm (1.25") T = Tape and reel U = Ammopack	L = Straight Lead H = High seated assy	2 = 2.5 mm (0.100") 5 = 5.0 mm (0.200")
Ordering Example: K-103-K-15-X7R-F-5-3-H-5									



CAPACITANCE RANGE CHART

C0G (NP0) DIELECTRIC					
SIZE		15		20	
RATED VOLTAGE		50	100	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 μ F	103				

Y5V DIELECTRIC					
SIZE		15		20	
RATED VOLTAGE		50	100	50	100
VALUE	CODE				
0.01 μ F	103	•	•		
0.015 μ F	153	•	•		
0.022 μ F	223	•	•		
0.033 μ F	333	•	•		
0.047 μ F	473	•	•		
0.068 μ F	683	•	•		
0.10 μ F	104	•	•		
0.15 μ F	154	•			•
0.22 μ F	224	•			•
0.33 μ F	334	•			
0.47 μ F	474			•	
0.68 μ F	684			•	
1.0 μ F	105			•	

X7R DIELECTRIC					
SIZE		15		20	
RATED VOLTAGE		50	100	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 μ F	103	•	•		
0.012 μ F	123	•	•		
0.015 μ F	153	•	•		
0.018 μ F	183	•	•		
0.022 μ F	223	•	•		
0.027 μ F	273	•			•
0.033 μ F	333	•			•
0.039 μ F	393	•			•
0.047 μ F	473	•			•
0.056 μ F	563	•			•
0.068 μ F	683	•			•
0.082 μ F	823	•			•
0.10 μ F	104	•			•
0.12 μ F	124			•	•
0.15 μ F	154			•	•
0.22 μ F	224			•	
0.33 μ F	334			•	
0.47 μ F	474			•	
0.68 μ F	684			•	
1.0 μ F	105			•	

PART NUMBER LISTING - if not in range chart, please contact cmll@vishay.com

MONO-KAP Y5V - 50 V _{DC} CLEAR TEXT CODE			
CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	+ 80 %/- 20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
10 000	50	K103Z15Y5VF5.L2	2.5 (0.10)
10 000		K103Z15Y5VF5.H5	5.0 (0.20)
15 000		K153Z15Y5VF5.L2	2.5 (0.10)
15 000		K153Z15Y5VF5.H5	5.0 (0.20)
22 000		K223Z15Y5VF5.L2	2.5 (0.10)
22 000		K223Z15Y5VF5.H5	5.0 (0.20)
33 000		K333Z15Y5VF5.L2	2.5 (0.10)
33 000		K333Z15Y5VF5.H5	5.0 (0.20)
47 000		K473Z15Y5VF5.L2	2.5 (0.10)
47 000		K473Z15Y5VF5.H5	5.0 (0.20)
68 000		K683Z15Y5VF5.L2	2.5 (0.10)
68 000		K683Z15Y5VF5.H5	5.0 (0.20)
100 000		K104Z15Y5VF5.L2	2.5 (0.10)
100 000		K104Z15Y5VF5.H5	5.0 (0.20)
150 000		K154Z15Y5VF5.L2	2.5 (0.10)
150 000		K154Z15Y5VF5.H5	5.0 (0.20)
220 000		K224Z15Y5VF5.L2	2.5 (0.10)
220 000		K224Z15Y5VF5.H5	5.0 (0.20)
330 000		K334Z20Y5VF5.L2	2.5 (0.10)
330 000		K334Z20Y5VF5.H5	5.0 (0.20)
470 000		K474Z20Y5VF5.L2	2.5 (0.10)
470 000		K474Z20Y5VF5.H5	5.0 (0.20)
680 000		K684Z20Y5VF5.L2	2.5 (0.10)
680 000		K684Z20Y5VF5.H5	5.0 (0.20)
1 000 000		K105Z20Y5VF5.L2	2.5 (0.10)
1 000 000		K105Z20Y5VF5.H5	5.0 (0.20)

MONO-KAP X7R - 50 V _{DC} CLEAR TEXT CODE				
CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
100	50	K101K15X7RF5.L2	K101M15X7RF5.L2	2.5 (0.10)
100		K101K15X7RF5.H5	K101M15X7RF5.H5	5.0 (0.20)
120		K121K15X7RF5.L2	K121M15X7RF5.L2	2.5 (0.10)
120		K121K15X7RF5.H5	K121M15X7RF5.H5	5.0 (0.20)
150		K151K15X7RF5.L2	K151M15X7RF5.L2	2.5 (0.10)
150		K151K15X7RF5.H5	K151M15X7RF5.H5	5.0 (0.20)
180		K181K15X7RF5.L2	K181M15X7RF5.L2	2.5 (0.10)
180		K181K15X7RF5.H5	K181M15X7RF5.H5	5.0 (0.20)
220		K221K15X7RF5.L2	K221M15X7RF5.L2	2.5 (0.10)
220		K221K15X7RF5.H5	K221M15X7RF5.H5	5.0 (0.20)
270		K271K15X7RF5.L2	K271M15X7RF5.L2	2.5 (0.10)
270		K271K15X7RF5.H5	K271M15X7RF5.H5	5.0 (0.20)
330		K331K15X7RF5.L2	K331M15X7RF5.L2	2.5 (0.10)
330		K331K15X7RF5.H5	K331M15X7RF5.H5	5.0 (0.20)

Multilayer Ceramic Dipped Radial Capacitors
50 V_{DC} and 100 V_{DC}

Vishay

MONO-KAP X7R - 50 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
390	50	K391K15X7RF5.L2	K391M15X7RF5.L2	2.5 (0.10)
390		K391K15X7RF5.H5	K391M15X7RF5.H5	5.0 (0.20)
470		K471K15X7RF5.L2	K471M15X7RF5.L2	2.5 (0.10)
470		K471K15X7RF5.H5	K471M15X7RF5.H5	5.0 (0.20)
560		K561K15X7RF5.L2	K561M15X7RF5.L2	2.5 (0.10)
560		K561K15X7RF5.H5	K561M15X7RF5.H5	5.0 (0.20)
680		K681K15X7RF5.L2	K681M15X7RF5.L2	2.5 (0.10)
680		K681K15X7RF5.H5	K681M15X7RF5.H5	5.0 (0.20)
820		K821K15X7RF5.L2	K821M15X7RF5.L2	2.5 (0.10)
820		K821K15X7RF5.H5	K821M15X7RF5.H5	5.0 (0.20)
1000		K102K15X7RF5.L2	K102M15X7RF5.L2	2.5 (0.10)
1000		K102K15X7RF5.H5	K102M15X7RF5.H5	5.0 (0.20)
1200		K122K15X7RF5.L2	K122M15X7RF5.L2	2.5 (0.10)
1200		K122K15X7RF5.H5	K122M15X7RF5.H5	5.0 (0.20)
1500		K152K15X7RF5.L2	K152M15X7RF5.L2	2.5 (0.10)
1500		K152K15X7RF5.H5	K152M15X7RF5.H5	5.0 (0.20)
1800		K182K15X7RF5.L2	K182M15X7RF5.L2	2.5 (0.10)
1800		K182K15X7RF5.H5	K182M15X7RF5.H5	5.0 (0.20)
2200		K222K15X7RF5.L2	K222M15X7RF5.L2	2.5 (0.10)
2200		K222K15X7RF5.H5	K222M15X7RF5.H5	5.0 (0.20)
2700		K272K15X7RF5.L2	K272M15X7RF5.L2	2.5 (0.10)
2700		K272K15X7RF5.H5	K272M15X7RF5.H5	5.0 (0.20)
3300		K332K15X7RF5.L2	K332M15X7RF5.L2	2.5 (0.10)
3300		K332K15X7RF5.H5	K332M15X7RF5.H5	5.0 (0.20)
3900		K392K15X7RF5.L2	K392M15X7RF5.L2	2.5 (0.10)
3900		K392K15X7RF5.H5	K392M15X7RF5.H5	5.0 (0.20)
4700		K472K15X7RF5.L2	K472M15X7RF5.L2	2.5 (0.10)
4700		K472K15X7RF5.H5	K472M15X7RF5.H5	5.0 (0.20)
5600		K562K15X7RF5.L2	K562M15X7RF5.L2	2.5 (0.10)
5600		K562K15X7RF5.H5	K562M15X7RF5.H5	5.0 (0.20)
6800		K682K15X7RF5.L2	K682M15X7RF5.L2	2.5 (0.10)
6800		K682K15X7RF5.H5	K682M15X7RF5.H5	5.0 (0.20)
8200		K822K15X7RF5.L2	K822M15X7RF5.L2	2.5 (0.10)
8200		K822K15X7RF5.H5	K822M15X7RF5.H5	5.0 (0.20)
10 000		K103K15X7RF5.L2	K103M15X7RF5.L2	2.5 (0.10)
10 000		K103K15X7RF5.H5	K103M15X7RF5.H5	5.0 (0.20)
12 000		K123K15X7RF5.L2	K123M15X7RF5.L2	2.5 (0.10)
12 000		K123K15X7RF5.H5	K123M15X7RF5.H5	5.0 (0.20)
15 000		K153K15X7RF5.L2	K153M15X7RF5.L2	2.5 (0.10)
15 000		K153K15X7RF5.H5	K153M15X7RF5.H5	5.0 (0.20)
18 000		K183K15X7RF5.L2	K183M15X7RF5.L2	2.5 (0.10)
18 000		K183K15X7RF5.H5	K183M15X7RF5.H5	5.0 (0.20)
22 000		K223K15X7RF5.L2	K223M15X7RF5.L2	2.5 (0.10)
22 000		K223K15X7RF5.H5	K223M15X7RF5.H5	5.0 (0.20)
27 000		K273K15X7RF5.L2	K273M15X7RF5.L2	2.5 (0.10)
27 000		K273K15X7RF5.H5	K273M15X7RF5.H5	5.0 (0.20)

MONO-KAP X7R - 50 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
33 000	50	K333K15X7RF5.L2	K333M15X7RF5.L2	2.5 (0.10)
33 000		K333K15X7RF5.H5	K333M15X7RF5.H5	5.0 (0.20)
39 000		K393K15X7RF5.L2	K393M15X7RF5.L2	2.5 (0.10)
39 000		K393K15X7RF5.H5	K393M15X7RF5.H5	5.0 (0.20)
47 000		K473K15X7RF5.L2	K473M15X7RF5.L2	2.5 (0.10)
47 000		K473K15X7RF5.H5	K473M15X7RF5.H5	5.0 (0.20)
56 000		K563K15X7RF5.L2	K563M15X7RF5.L2	2.5 (0.10)
56 000		K563K15X7RF5.H5	K563M15X7RF5.H5	5.0 (0.20)
68 000		K683K15X7RF5.L2	K683M15X7RF5.L2	2.5 (0.10)
68 000		K683K15X7RF5.H5	K683M15X7RF5.H5	5.0 (0.20)
82 000		K823K15X7RF5.L2	K823M15X7RF5.L2	2.5 (0.10)
82 000		K823K15X7RF5.H5	K823M15X7RF5.H5	5.0 (0.20)
100 000		K104K15X7RF5.L2	K104M15X7RF5.L2	2.5 (0.10)
100 000		K104K15X7RF5.H5	K104M15X7RF5.H5	5.0 (0.20)
150 000		K154K20X7RF5.L2	K154M20X7RF5.L2	2.5 (0.10)
150 000		K154K20X7RF5.H5	K154M20X7RF5.H5	5.0 (0.20)
220 000		K224K20X7RF5.L2	K224M20X7RF5.L2	2.5 (0.10)
220 000		K224K20X7RF5.H5	K224M20X7RF5.H5	5.0 (0.20)
330 000		K334K20X7RF5.L2	K334M20X7RF5.L2	2.5 (0.10)
330 000		K334K20X7RF5.H5	K334M20X7RF5.H5	5.0 (0.20)
470 000		K474K20X7RF5.L2	K474M20X7RF5.L2	2.5 (0.10)
470 000		K474K20X7RF5.H5	K474M20X7RF5.H5	5.0 (0.20)
680 000		K684K20X7RF5.L2	K684M20X7RF5.L2	2.5 (0.10)
680 000		K684K20X7RF5.H5	K684M20X7RF5.H5	5.0 (0.20)
1 000 000		K105K20X7RF5.L2	K105M20X7RF5.L2	2.5 (0.10)
1 000 000		K105K20X7RF5.H5	K105M20X7RF5.H5	5.0 (0.20)

MONO-KAP C0G - 50 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
10	50	K100J15C0GF5.L2	K100K15C0GF5.L2	2.5 (0.10)
10		K100J15C0GF5.H5	K100K15C0GF5.H5	5.0 (0.20)
12		K120J15C0GF5.L2	K120K15C0GF5.L2	2.5 (0.10)
12		K120J15C0GF5.H5	K120K15C0GF5.H5	5.0 (0.20)
15		K150J15C0GF5.L2	K150K15C0GF5.L2	2.5 (0.10)
15		K150J15C0GF5.H5	K150K15C0GF5.H5	5.0 (0.20)
18		K180J15C0GF5.L2	K180K15C0GF5.L2	2.5 (0.10)
18		K180J15C0GF5.H5	K180K15C0GF5.H5	5.0 (0.20)
22		K220J15C0GF5.L2	K220K15C0GF5.L2	2.5 (0.10)
22		K220J15C0GF5.H5	K220K15C0GF5.H5	5.0 (0.20)
27		K270J15C0GF5.L2	K270K15C0GF5.L2	2.5 (0.10)
27		K270J15C0GF5.H5	K270K15C0GF5.H5	5.0 (0.20)
33		K330J15C0GF5.L2	K330K15C0GF5.L2	2.5 (0.10)
33		K330J15C0GF5.H5	K330K15C0GF5.H5	5.0 (0.20)
39		K390J15C0GF5.L2	K390K15C0GF5.L2	2.5 (0.10)
39		K390J15C0GF5.H5	K390K15C0GF5.H5	5.0 (0.20)

Multilayer Ceramic Dipped Radial Capacitors
50 V_{DC} and 100 V_{DC}

Vishay

MONO-KAP C0G - 50 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
47	50	K470J15C0GF5.L2	K470K15C0GF5.L2	2.5 (0.10)
47		K470J15C0GF5.H5	K470K15C0GF5.H5	5.0 (0.20)
56		K560J15C0GF5.L2	K560K15C0GF5.L2	2.5 (0.10)
56		K560J15C0GF5.H5	K560K15C0GF5.H5	5.0 (0.20)
68		K680J15C0GF5.L2	K680K15C0GF5.L2	2.5 (0.10)
68		K680J15C0GF5.H5	K680K15C0GF5.H5	5.0 (0.20)
82		K820J15C0GF5.L2	K820K15C0GF5.L2	2.5 (0.10)
82		K820J15C0GF5.H5	K820K15C0GF5.H5	5.0 (0.20)
100		K101J15C0GF5.L2	K101K15C0GF5.L2	2.5 (0.10)
100		K101J15C0GF5.H5	K101K15C0GF5.H5	5.0 (0.20)
120		K121J15C0GF5.L2	K121K15C0GF5.L2	2.5 (0.10)
120		K121J15C0GF5.H5	K121K15C0GF5.H5	5.0 (0.20)
150		K151J15C0GF5.L2	K151K15C0GF5.L2	2.5 (0.10)
150		K151J15C0GF5.H5	K151K15C0GF5.H5	5.0 (0.20)
180		K181J15C0GF5.L2	K181K15C0GF5.L2	2.5 (0.10)
180		K181J15C0GF5.H5	K181K15C0GF5.H5	5.0 (0.20)
220		K221J15C0GF5.L2	K221K15C0GF5.L2	2.5 (0.10)
220		K221J15C0GF5.H5	K221K15C0GF5.H5	5.0 (0.20)
270		K271J15C0GF5.L2	K271K15C0GF5.L2	2.5 (0.10)
270		K271J15C0GF5.H5	K271K15C0GF5.H5	5.0 (0.20)
330		K331J15C0GF5.L2	K331K15C0GF5.L2	2.5 (0.10)
330		K331J15C0GF5.H5	K331K15C0GF5.H5	5.0 (0.20)
390		K391J15C0GF5.L2	K391K15C0GF5.L2	2.5 (0.10)
390		K391J15C0GF5.H5	K391K15C0GF5.H5	5.0 (0.20)
470		K471J15C0GF5.L2	K471K15C0GF5.L2	2.5 (0.10)
470		K471J15C0GF5.H5	K471K15C0GF5.H5	5.0 (0.20)
560		K561J15C0GF5.L2	K561K15C0GF5.L2	2.5 (0.10)
560		K561J15C0GF5.H5	K561K15C0GF5.H5	5.0 (0.20)
680		K681J15C0GF5.L2	K681K15C0GF5.L2	2.5 (0.10)
680		K681J15C0GF5.H5	K681K15C0GF5.H5	5.0 (0.20)
820		K821J15C0GF5.L2	K821K15C0GF5.L2	2.5 (0.10)
820		K821J15C0GF5.H5	K821K15C0GF5.H5	5.0 (0.20)
1000		K102J15C0GF5.L2	K102K15C0GF5.L2	2.5 (0.10)
1000		K102J15C0GF5.H5	K102K15C0GF5.H5	5.0 (0.20)
1200		K122J15C0GF5.L2	K122K15C0GF5.L2	2.5 (0.10)
1200		K122J15C0GF5.H5	K122K15C0GF5.H5	5.0 (0.20)
1500		K152J15C0GF5.L2	K152K15C0GF5.L2	2.5 (0.10)
1500		K152J15C0GF5.H5	K152K15C0GF5.H5	5.0 (0.20)
1800		K182J15C0GF5.L2	K182K15C0GF5.L2	2.5 (0.10)
1800		K182J15C0GF5.H5	K182K15C0GF5.H5	5.0 (0.20)
2200		K222J15C0GF5.L2	K222K15C0GF5.L2	2.5 (0.10)
2200		K222J15C0GF5.H5	K222K15C0GF5.H5	5.0 (0.20)
2700		K272J20C0GF5.L2	K272K20C0GF5.L2	2.5 (0.10)
2700		K272J20C0GF5.H5	K272K20C0GF5.H5	5.0 (0.20)
3300		K332J20C0GF5.L2	K332K20C0GF5.L2	2.5 (0.10)
3300		K332J20C0GF5.H5	K332K20C0GF5.H5	5.0 (0.20)

MONO-KAP C0G - 50 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
3900	50	K392J20C0GF5.L2	K392K20C0GF5.L2	2.5 (0.10)
3900		K392J20C0GF5.H5	K392K20C0GF5.H5	5.0 (0.20)
4700		K472J20C0GF5.L2	K472K20C0GF5.L2	2.5 (0.10)
4700		K472J20C0GF5.H5	K472K20C0GF5.H5	5.0 (0.20)
5600		K562J20C0GF5.L2	K562K20C0GF5.L2	2.5 (0.10)
5600		K562J20C0GF5.H5	K562K20C0GF5.H5	5.0 (0.20)
6800		K682J20C0GF5.L2	K682K20C0GF5.L2	2.5 (0.10)
6800		K682J20C0GF5.H5	K682K20C0GF5.H5	5.0 (0.20)
8200		K822J20C0GF5.L2	K822K20C0GF5.L2	2.5 (0.10)
8200		K822J20C0GF5.H5	K822K20C0GF5.H5	5.0 (0.20)
10 000		K103J20C0GF5.L2	K103K20C0GF5.L2	2.5 (0.10)
10 000		K103J20C0GF5.H5	K103K20C0GF5.H5	5.0 (0.20)

MONO-KAP Y5V - 100 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	+ 80 %/- 20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
10 000	100	K103Z15Y5VH53L2	2.5 (0.10)
10 000		K103Z15Y5VH53H5	5.0 (0.20)
15 000		K153Z15Y5VH53L2	2.5 (0.10)
15 000		K153Z15Y5VH53H5	5.0 (0.20)
22 000		K223Z15Y5VH53L2	2.5 (0.10)
22 000		K223Z15Y5VH53H5	5.0 (0.20)
33 000		K333Z15Y5VH53L2	2.5 (0.10)
33 000		K333Z15Y5VH53H5	5.0 (0.20)
47 000		K473Z15Y5VH53L2	2.5 (0.10)
47 000		K473Z15Y5VH53H5	5.0 (0.20)
68 000		K683Z15Y5VH53L2	2.5 (0.10)
68 000		K683Z15Y5VH53H5	5.0 (0.20)
100 000		K104Z15Y5VH53L2	2.5 (0.10)
100 000		K104Z15Y5VH53H5	5.0 (0.20)
150 000		K154Z20Y5VH53L2	2.5 (0.10)
150 000		K154Z20Y5VH53H5	5.0 (0.20)
220 000		K224Z20Y5VH53L2	2.5 (0.10)
220 000		K224Z20Y5VH53H5	5.0 (0.20)

Multilayer Ceramic Dipped Radial Capacitors
50 V_{DC} and 100 V_{DC}

Vishay

MONO-KAP X7R - 100 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
100	100	K101K15X7RH5.L2	K101M15X7RH5.L2	2.5 (0.10)
100		K101K15X7RH5.H5	K101M15X7RH5.H5	5.0 (0.20)
120		K121K15X7RH5.L2	K121M15X7RH5.L2	2.5 (0.10)
120		K121K15X7RH5.H5	K121M15X7RH5.H5	5.0 (0.20)
150		K151K15X7RH5.L2	K151M15X7RH5.L2	2.5 (0.10)
150		K151K15X7RH5.H5	K151M15X7RH5.H5	5.0 (0.20)
180		K181K15X7RH5.L2	K181M15X7RH5.L2	2.5 (0.10)
180		K181K15X7RH5.H5	K181M15X7RH5.H5	5.0 (0.20)
220		K221K15X7RH5.L2	K221M15X7RH5.L2	2.5 (0.10)
220		K221K15X7RH5.H5	K221M15X7RH5.H5	5.0 (0.20)
270		K271K15X7RH5.L2	K271M15X7RH5.L2	2.5 (0.10)
270		K271K15X7RH5.H5	K271M15X7RH5.H5	5.0 (0.20)
330		K331K15X7RH5.L2	K331M15X7RH5.L2	2.5 (0.10)
330		K331K15X7RH5.H5	K331M15X7RH5.H5	5.0 (0.20)
390		K391K15X7RH5.L2	K391M15X7RH5.L2	2.5 (0.10)
390		K391K15X7RH5.H5	K391M15X7RH5.H5	5.0 (0.20)
470		K471K15X7RH5.L2	K471M15X7RH5.L2	2.5 (0.10)
470		K471K15X7RH5.H5	K471M15X7RH5.H5	5.0 (0.20)
560		K561K15X7RH5.L2	K561M15X7RH5.L2	2.5 (0.10)
560		K561K15X7RH5.H5	K561M15X7RH5.H5	5.0 (0.20)
680		K681K15X7RH5.L2	K681M15X7RH5.L2	2.5 (0.10)
680		K681K15X7RH5.H5	K681M15X7RH5.H5	5.0 (0.20)
820		K821K15X7RH5.L2	K821M15X7RH5.L2	2.5 (0.10)
820		K821K15X7RH5.H5	K821M15X7RH5.H5	5.0 (0.20)
1000		K102K15X7RH5.L2	K102M15X7RH5.L2	2.5 (0.10)
1000		K102K15X7RH5.H5	K102M15X7RH5.H5	5.0 (0.20)
1200		K122K15X7RH5.L2	K122M15X7RH5.L2	2.5 (0.10)
1200		K122K15X7RH5.H5	K122M15X7RH5.H5	5.0 (0.20)
1500		K152K15X7RH5.L2	K152M15X7RH5.L2	2.5 (0.10)
1500		K152K15X7RH5.H5	K152M15X7RH5.H5	5.0 (0.20)
1800		K182K15X7RH5.L2	K182M15X7RH5.L2	2.5 (0.10)
1800		K182K15X7RH5.H5	K182M15X7RH5.H5	5.0 (0.20)
2200		K222K15X7RH5.L2	K222M15X7RH5.L2	2.5 (0.10)
2200		K222K15X7RH5.H5	K222M15X7RH5.H5	5.0 (0.20)
2700		K272K15X7RH5.L2	K272M15X7RH5.L2	2.5 (0.10)
2700		K272K15X7RH5.H5	K272M15X7RH5.H5	5.0 (0.20)
3300		K332K15X7RH5.L2	K332M15X7RH5.L2	2.5 (0.10)
3300		K332K15X7RH5.H5	K332M15X7RH5.H5	5.0 (0.20)
3900		K392K15X7RH5.L2	K392M15X7RH5.L2	2.5 (0.10)
3900		K392K15X7RH5.H5	K392M15X7RH5.H5	5.0 (0.20)
4700		K472K15X7RH5.L2	K472M15X7RH5.L2	2.5 (0.10)
4700		K472K15X7RH5.H5	K472M15X7RH5.H5	5.0 (0.20)
5600		K562K15X7RH5.L2	K562M15X7RH5.L2	2.5 (0.10)
5600		K562K15X7RH5.H5	K562M15X7RH5.H5	5.0 (0.20)
6800		K682K15X7RH5.L2	K682M15X7RH5.L2	2.5 (0.10)
6800		K682K15X7RH5.H5	K682M15X7RH5.H5	5.0 (0.20)

MONO-KAP X7R - 100 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	20 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
8200	100	K822K15X7RH5.L2	K822M15X7RH5.L2	2.5 (0.10)
8200		K822K15X7RH5.H5	K822M15X7RH5.H5	5.0 (0.20)
10 000		K103K15X7RH5.L2	K103M15X7RH5.L2	2.5 (0.10)
10 000		K103K15X7RH5.H5	K103M15X7RH5.H5	5.0 (0.20)
12 000		K123K15X7RH5.L2	K123M15X7RH5.L2	2.5 (0.10)
12 000		K123K15X7RH5.H5	K123M15X7RH5.H5	5.0 (0.20)
15 000		K153K15X7RH5.L2	K153M15X7RH5.L2	2.5 (0.10)
15 000		K153K15X7RH5.H5	K153M15X7RH5.H5	5.0 (0.20)
18 000		K183K15X7RH5.L2	K183M15X7RH5.L2	2.5 (0.10)
18 000		K183K15X7RH5.H5	K183M15X7RH5.H5	5.0 (0.20)
22 000		K223K15X7RH5.L2	K223M15X7RH5.L2	2.5 (0.10)
22 000		K223K15X7RH5.H5	K223M15X7RH5.H5	5.0 (0.20)
27 000		K273K20X7RH5.L2	K273M20X7RH5.L2	2.5 (0.10)
27 000		K273K20X7RH5.H5	K273M20X7RH5.H5	5.0 (0.20)
33 000		K333K20X7RH5.L2	K333M20X7RH5.L2	2.5 (0.10)
33 000		K333K20X7RH5.H5	K333M20X7RH5.H5	5.0 (0.20)
39 000		K393K20X7RH5.L2	K393M20X7RH5.L2	2.5 (0.10)
39 000		K393K20X7RH5.H5	K393M20X7RH5.H5	5.0 (0.20)
47 000		K473K20X7RH5.L2	K473M20X7RH5.L2	2.5 (0.10)
47 000		K473K20X7RH5.H5	K473M20X7RH5.H5	5.0 (0.20)
56 000		K563K20X7RH5.L2	K563M20X7RH5.L2	2.5 (0.10)
56 000		K563K20X7RH5.H5	K563M20X7RH5.H5	5.0 (0.20)
68 000		K683K20X7RH5.L2	K683M20X7RH5.L2	2.5 (0.10)
68 000		K683K20X7RH5.H5	K683M20X7RH5.H5	5.0 (0.20)
82 000		K823K20X7RH5.L2	K823M20X7RH5.L2	2.5 (0.10)
82 000		K823K20X7RH5.H5	K823M20X7RH5.H5	5.0 (0.20)
100 000		K104K20X7RH5.L2	K104M20X7RH5.L2	2.5 (0.10)
100 000		K104K20X7RH5.H5	K104M20X7RH5.H5	5.0 (0.20)

MONO-KAP C0G - 100 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
10	100	K100J15C0GH5.L2	K100K15C0GH5.L2	2.5 (0.10)
10		K100J15C0GH5.H5	K100K15C0GH5.H5	5.0 (0.20)
12		K120J15C0GH5.L2	K120K15C0GH5.L2	2.5 (0.10)
12		K120J15C0GH5.H5	K120K15C0GH5.H5	5.0 (0.20)
15		K150J15C0GH5.L2	K150K15C0GH5.L2	2.5 (0.10)
15		K150J15C0GH5.H5	K150K15C0GH5.H5	5.0 (0.20)
18		K180J15C0GH5.L2	K180K15C0GH5.L2	2.5 (0.10)
18		K180J15C0GH5.H5	K180K15C0GH5.H5	5.0 (0.20)
22		K220J15C0GH5.L2	K220K15C0GH5.L2	2.5 (0.10)
22		K220J15C0GH5.H5	K220K15C0GH5.H5	5.0 (0.20)
27		K270J15C0GH5.L2	K270K15C0GH5.L2	2.5 (0.10)
27		K270J15C0GH5.H5	K270K15C0GH5.H5	5.0 (0.20)

Multilayer Ceramic Dipped Radial Capacitors
50 V_{DC} and 100 V_{DC}**MONO-KAP C0G - 100 V_{DC} CLEAR TEXT CODE**

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
33	100	K330J15C0GH5.L2	K330K15C0GH5.L2	2.5 (0.10)
33		K330J15C0GH5.H5	K330K15C0GH5.H5	5.0 (0.20)
39		K390J15C0GH5.L2	K390K15C0GH5.L2	2.5 (0.10)
39		K390J15C0GH5.H5	K390K15C0GH5.H5	5.0 (0.20)
47		K470J15C0GH5.L2	K470K15C0GH5.L2	2.5 (0.10)
47		K470J15C0GH5.H5	K470K15C0GH5.H5	5.0 (0.20)
56		K560J15C0GH5.L2	K560K15C0GH5.L2	2.5 (0.10)
56		K560J15C0GH5.H5	K560K15C0GH5.H5	5.0 (0.20)
68		K680J15C0GH5.L2	K680K15C0GH5.L2	2.5 (0.10)
68		K680J15C0GH5.H5	K680K15C0GH5.H5	5.0 (0.20)
82		K820J15C0GH5.L2	K820K15C0GH5.L2	2.5 (0.10)
82		K820J15C0GH5.H5	K820K15C0GH5.H5	5.0 (0.20)
100		K101J15C0GH5.L2	K101K15C0GH5.L2	2.5 (0.10)
100		K101J15C0GH5.H5	K101K15C0GH5.H5	5.0 (0.20)
120		K121J15C0GH5.L2	K121K15C0GH5.L2	2.5 (0.10)
120		K121J15C0GH5.H5	K121K15C0GH5.H5	5.0 (0.20)
150		K151J15C0GH5.L2	K151K15C0GH5.L2	2.5 (0.10)
150		K151J15C0GH5.H5	K151K15C0GH5.H5	5.0 (0.20)
180		K181J15C0GH5.L2	K181K15C0GH5.L2	2.5 (0.10)
180		K181J15C0GH5.H5	K181K15C0GH5.H5	5.0 (0.20)
220		K221J15C0GH5.L2	K221K15C0GH5.L2	2.5 (0.10)
220		K221J15C0GH5.H5	K221K15C0GH5.H5	5.0 (0.20)
270		K271J15C0GH5.L2	K271K15C0GH5.L2	2.5 (0.10)
270		K271J15C0GH5.H5	K271K15C0GH5.H5	5.0 (0.20)
330		K331J15C0GH5.L2	K331K15C0GH5.L2	2.5 (0.10)
330		K331J15C0GH5.H5	K331K15C0GH5.H5	5.0 (0.20)
390		K391J15C0GH5.L2	K391K15C0GH5.L2	2.5 (0.10)
390		K391J15C0GH5.H5	K391K15C0GH5.H5	5.0 (0.20)
470		K471J15C0GH5.L2	K471K15C0GH5.L2	2.5 (0.10)
470		K471J15C0GH5.H5	K471K15C0GH5.H5	5.0 (0.20)
560		K561J15C0GH5.L2	K561K15C0GH5.L2	2.5 (0.10)
560		K561J15C0GH5.H5	K561K15C0GH5.H5	5.0 (0.20)
680		K681J15C0GH5.L2	K681K15C0GH5.L2	2.5 (0.10)
680		K681J15C0GH5.H5	K681K15C0GH5.H5	5.0 (0.20)
820		K821J15C0GH5.L2	K821K15C0GH5.L2	2.5 (0.10)
820		K821J15C0GH5.H5	K821K15C0GH5.H5	5.0 (0.20)
1000		K102J20C0GH5.L2	K102K20C0GH5.L2	2.5 (0.10)
1000		K102J20C0GH5.H5	K102K20C0GH5.H5	5.0 (0.20)
1200		K122J20C0GH5.L2	K122K20C0GH5.L2	2.5 (0.10)
1200		K122J20C0GH5.H5	K122K20C0GH5.H5	5.0 (0.20)
1500		K152J20C0GH5.L2	K152K20C0GH5.L2	2.5 (0.10)
1500		K152J20C0GH5.H5	K152K20C0GH5.H5	5.0 (0.20)
1800		K182J20C0GH5.L2	K182K20C0GH5.L2	2.5 (0.10)
1800		K182J20C0GH5.H5	K182K20C0GH5.H5	5.0 (0.20)
2200		K222J20C0GH5.L2	K222K20C0GH5.L2	2.5 (0.10)
2200		K222J20C0GH5.H5	K222K20C0GH5.H5	5.0 (0.20)

MONO-KAP C0G - 100 V_{DC} CLEAR TEXT CODE

CAPACITANCE (pF)	RATED VOLTAGE (V _{DC})	5 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	10 % TOLERANCE 13 th digit (T = Reel, U = Ammo, 3 = Bulk)	LEAD SPACING mm (inch)
2700	100	K272J20C0GH5.L2	K272K20C0GH5.L2	2.5 (0.10)
2700		K272J20C0GH5.H5	K272K20C0GH5.H5	5.0 (0.20)
3300		K332J20C0GH5.L2	K332K20C0GH5.L2	2.5 (0.10)
3300		K332J20C0GH5.H5	K332K20C0GH5.H5	5.0 (0.20)
3900		K392J20C0GH5.L2	K392K20C0GH5.L2	2.5 (0.10)
3900		K392J20C0GH5.H5	K392K20C0GH5.H5	5.0 (0.20)
4700		K472J20C0GH5.L2	K472K20C0GH5.L2	2.5 (0.10)
4700		K472J20C0GH5.H5	K472K20C0GH5.H5	5.0 (0.20)
5600		K562J20C0GH5.L2	K562K20C0GH5.L2	2.5 (0.10)
5600		K562J20C0GH5.H5	K562K20C0GH5.H5	5.0 (0.20)



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.