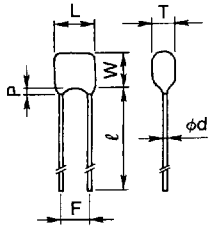


Ceramic Capacitors

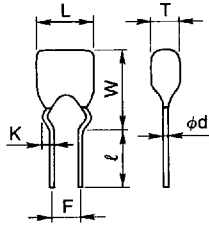
MULTILAYER CERAMIC DIPPED RADIAL LEADED CAPACITORS

FD AND FK TYPE, CLASS I [50Vdc] AND CLASS II [25, 50Vdc]

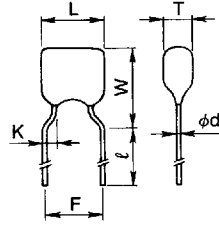
FD11, FD23



FK11, FK16



FK20, FK22, FK26



Dimensions in mm [inches]

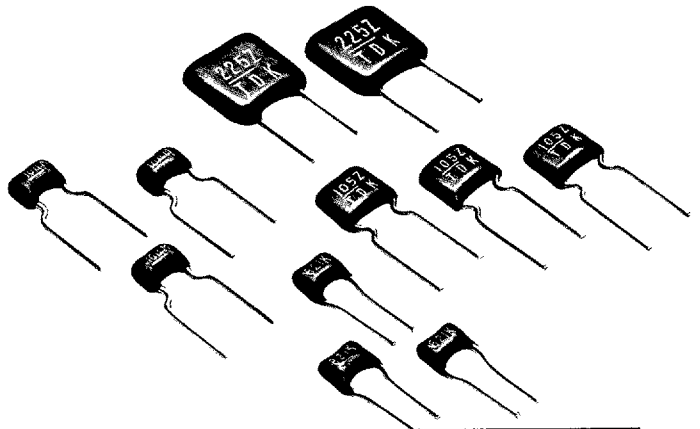
Type	L max.	W max.	T max.	F ± 1 [.039]	l	d ^{+0.1} _{-0.03} [^{+0.004} _{-.001}]	P max.	K ± 0.25 [.010]
FD11	3.5 [.138]	3 [.118]	2.5 [.098]	2.5 [.098]	15 ± 3 [.591 ± .118]	0.3 [.012]	1 [.039]	—
FK16	5 [.197]	5.5 [.217]	2.5 [.098]	2.5 [.098]	5 ⁺³ ₋₁ [.197 ⁺¹¹⁸ _{-.039}]	0.5 [.020]	—	1.25 [.049]
FK11	5 [.197]	7 [.276]	3 [.118]	2.5 [.098]	5 ⁺³ ₋₁ [.197 ⁺¹¹⁸ _{-.039}]	0.5 [.020]	—	1.25 [.049]
FK26	5 [.197]	5.5 [.217]	2.5 [.098]	5 [.197]	7 ± 2 [.276 ± .079]	0.5 [.020]	—	1.75 [.069]
FK20	5.5 [.217]	7 [.276]	3 [.118]	5 [.197]	7 ± 2 [.276 ± .079]	0.5 [.020]	—	1.75 [.069]
FK22	7.5 [.295]	7.5 [.295]	3.5 [.138]	5 [.197]	7 ± 2 [.276 ± .079]	0.5 [.020]	—	1.25 [.049]
FD23	10 [.394]	10 [.394]	3.8 [.150]	5 [.197]	7 ± 2 [.276 ± .079]	0.5 [.020]	1.5 [.059]	—

CAPACITANCE AND TOLERANCE

Capacitance tolerance	Capacitance 0.5 to 10 pF	Step value of capacitance over 10 pF [× 10 ⁿ⁺²]
C (± 0.25pF)*1, D (± 0.5pF), F (± 1.0pF)	0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 6 7 8 9 10	
Z (+80, -20%)		1 2.2 4.7
M (± 20%)		1 1.5 2.2 3.3 4.7 6.8
K (± 10%)		1 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2
J (± 5%)		1 1.1 1.2 1.3 1.5 1.6 1.8 2 2.2 2.4 2.7 3 3.3 3.6 3.9 4.3 4.7 5.1 5.6 6.2 6.8 7.5 8.2 9.1

*1. Tolerance C (± 0.25pF): 0.5 to 5pF capacitance.

*2. Step value × 10ⁿ = capacitance value by pF unit. See the tables for the service range of actual rated capacitance (P. 3-7).



Ceramic Capacitors

CAPACITANCE RANGE

Class I

50Vdc

Part No.	Capacitance (pF)
FD11C0G1H○○○*1□*2	0.5 to 1100
FD11SL1H○○○□	0.5 to 2700
FK16C0G1H○○○□	0.5 to 1800
FK16SL1H○○○□	0.5 to 4700
FK11C0G1H○○○□	2000 to 3900
FK11SL1H○○○□	5100 to 12000
FK26C0G1H○○○□	0.5 to 1800
FK26SL1H○○○□	0.5 to 4700
FK20C0G1H○○○□	2000 to 3900
FK20SL1H○○○□	5100 to 12000
FK22C0G1H○○○□	4300 to 10000
FK22SL1H○○○□	13000 to 30000
FD23C0G1H○○○□	11000 to 27000
FD23SL1H○○○□	33000 to 68000

*1. Capacitance code *2. Capacitance tolerance code

Class II

25Vdc

Part No.	Capacitance (pF)
FK33Y5V1E155*1Z*2	1500000 [1.5μF]

*1. Capacitance code *2. Capacitance tolerance code

50Vdc

Part No.	Capacitance (pF)
FD11X7R1H○○○*1□*2	1000 to 56000
FD11Y5V1H○○○Z	10000 to 100000
FK16X7R1H○○○□	1000 to 100000
FK16Y5V1H○○○Z	10000 to 220000
FK20X7R1H○○○□	82000 to 220000
FK20Y5V1H○○○Z	470000
FK22X7R1H○○○□	270000 to 470000
FK22Y5V1H○○○Z	1000000 [1μF]
FD23X7R1H○○○□	560000 to 1200000
FD23Y5V1H○○○Z	220000 [2.2μF], 470000 [4.7μF]
FK11X7R1H○○○□	120000 to 220000
FK11Y5V1H○○○Z	470000
FK26X7R1H○○○□	1000 to 100000
FK26Y5V1H○○○Z	10000 to 220000

*1. Capacitance code *2. Capacitance tolerance code

Temperature characteristics vs. range (°C) [°F]

Temperature characteristics	Temperature range
C0G (0 ± 30ppm/°C), X7R (± 15%)	- 55 to +125 [- 67 to +257]
SL (+350 to - 1000ppm/°C)	20 to 85 [68 to 185]
Y5R (± 15%), Y5V (+22, - 82%)	- 30 to +85 [- 22 to +185]