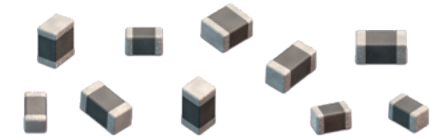


DESIGN KIT

WCAP-CSGP Multilayer Ceramic Chip Capacitors 0402



NPO				X7R				X5R			
885 012 005 017 10 V _{DC}	885 012 005 040 25 V _{DC}	885 012 005 048 25 V _{DC}	885 012 005 056 50 V _{DC}	885 012 205 036 16 V _{DC}	885 012 205 044 25 V _{DC}	885 012 205 052 25 V _{DC}	885 012 205 060 50 V _{DC}	885 012 105 008 6.3 V _{DC}	Dielectric NPO X7R X5R	Operating Temperature -55 °C to +125 °C -55 °C to +125 °C -55 °C to +85 °C	
NP00402471J010DFCT10000	NP00402100J025DFCT10000	NP00402221J025DFCT10000	NP00402150J050DFCT10000	X7R0402683K016DFCT10000	X7R0402102K025DFCT10000	X7R0402223K025DFCT10000	X7R0402681K050DFCT10000	X5R0402475M6R3DFCT10000			
470 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	10 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	220 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	15 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	68 nF, ±10 %, H=0.5 mm DF≤5 %, IR≥7.4 GΩ	1 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	22 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	680 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	4.7 μF, ±20 %, H=0.5 mm DF≤20 %, IR≥0.01 GΩ			
885 012 005 018 10 V _{DC}	885 012 005 041 25 V _{DC}	885 012 005 049 50 V _{DC}	885 012 005 057 50 V _{DC}	885 012 205 037 16 V _{DC}	885 012 205 045 25 V _{DC}	885 012 205 053 25 V _{DC}	885 012 205 061 50 V _{DC}	885 012 105 012 10 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP00402102J010DFCT10000	NP00402150J025DFCT10000	NP004021R0D050DFCT10000	NP00402220J050DFCT10000	X7R0402104K016DFCT10000	X7R0402152K025DFCT10000	X7R0402333K025DFCT10000	X7R0402102K050DFCT10000	X5R0402105M010DFCT10000			
1 nF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	15 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	1.0 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	22 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	100 nF, ±10 %, H=0.5 mm DF≤5 %, IR≥5 GΩ	1.5 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	33 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	1 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	1 μF, ±20 %, H=0.5 mm DF≤15 %, IR≥0.05 GΩ			
885 012 005 034 25 V _{DC}	885 012 005 042 25 V _{DC}	885 012 005 050 50 V _{DC}	885 012 005 058 50 V _{DC}	885 012 205 038 25 V _{DC}	885 012 205 046 25 V _{DC}	885 012 205 054 25 V _{DC}	885 012 205 062 50 V _{DC}	885 012 105 013 10 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004021R0D025DFCT10000	NP00402220J025DFCT10000	NP004021R5D050DFCT10000	NP00402330J050DFCT10000	X7R0402101K025DFCT10000	X7R0402222K025DFCT10000	X7R0402473K025DFCT10000	X7R0402152K050DFCT10000	X5R0402225M010DFCT10000			
1 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	22 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	1.5 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	33 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	100 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	2.2 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	47 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	1.5 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	2.2 μF, ±20 %, H=0.5 mm DF≤15 %, IR≥0.02 GΩ			
885 012 005 035 25 V _{DC}	885 012 005 043 25 V _{DC}	885 012 005 051 50 V _{DC}	885 012 005 059 50 V _{DC}	885 012 205 039 25 V _{DC}	885 012 205 047 25 V _{DC}	885 012 205 055 50 V _{DC}	885 012 205 063 50 V _{DC}	885 012 105 014 16 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004021R5D025DFCT10000	NP00402330J025DFCT10000	NP004022R2D050DFCT10000	NP00402470J050DFCT10000	X7R0402151K025DFCT10000	X7R0402332K025DFCT10000	X7R0402101K050DFCT10000	X7R0402222K050DFCT10000	X5R0402333M016DFCT10000			
1.5 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	33 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	2.2 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	47 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	150 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	3.3 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	100 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	2.2 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	33 nF, ±20 %, H=0.5 mm DF≤5 %, IR≥10 GΩ			
885 012 005 036 25 V _{DC}	885 012 005 044 25 V _{DC}	885 012 005 052 50 V _{DC}	885 012 005 060 50 V _{DC}	885 012 205 040 25 V _{DC}	885 012 205 048 25 V _{DC}	885 012 205 056 50 V _{DC}	885 012 205 064 50 V _{DC}	885 012 105 015 16 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004022R2D025DFCT10000	NP00402470J025DFCT10000	NP004023R3D050DFCT10000	NP00402680J050DFCT10000	X7R0402221K025DFCT10000	X7R0402472K025DFCT10000	X7R0402151K050DFCT10000	X7R0402332K050DFCT10000	X5R0402473M016DFCT10000			
2.2 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	47 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	3.3 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	68 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	220 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	4.7 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	150 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	3.3 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	47 nF, ±20 %, H=0.5 mm DF≤5 %, IR≥10 GΩ			
885 012 005 037 25 V _{DC}	885 012 005 045 25 V _{DC}	885 012 005 053 50 V _{DC}	885 012 005 061 50 V _{DC}	885 012 205 041 25 V _{DC}	885 012 205 049 25 V _{DC}	885 012 205 057 50 V _{DC}	885 012 205 065 50 V _{DC}	885 012 105 016 16 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004023R3D025DFCT10000	NP00402680J025DFCT10000	NP004024R7D050DFCT10000	NP00402101J050DFCT10000	X7R0402331K025DFCT10000	X7R0402682K025DFCT10000	X7R0402221K050DFCT10000	X7R0402472K050DFCT10000	X5R0402104M016DFCT10000			
3.3 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	68 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	4.7 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	100 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	330 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	6.8 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	220 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	4.7 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	100 nF, ±20 %, H=0.5 mm DF≤5 %, IR≥5 GΩ			
885 012 005 038 25 V _{DC}	885 012 005 046 25 V _{DC}	885 012 005 054 50 V _{DC}	885 012 005 062 50 V _{DC}	885 012 205 042 25 V _{DC}	885 012 205 050 25 V _{DC}	885 012 205 058 50 V _{DC}	885 012 205 066 50 V _{DC}	885 012 105 017 16 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004024R7D025DFCT10000	NP00402101J025DFCT10000	NP004026R8D050DFCT10000	NP00402151J050DFCT10000	X7R0402471K025DFCT10000	X7R0402103K025DFCT10000	X7R0402331K050DFCT10000	X7R0402682K050DFCT10000	X5R0402224M016DFCT10000			
4.7 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	100 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	6.8 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	150 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	470 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	10 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	330 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	6.8 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	220 nF, ±20 %, H=0.5 mm DF≤10 %, IR≥0.5 GΩ			
885 012 005 039 25 V _{DC}	885 012 005 047 25 V _{DC}	885 012 005 055 50 V _{DC}	885 012 005 063 50 V _{DC}	885 012 205 043 25 V _{DC}	885 012 205 051 25 V _{DC}	885 012 205 059 50 V _{DC}	885 012 205 067 50 V _{DC}	885 012 105 018 25 V _{DC}	Dielectric NPO X7R X5R	Capacitance Characteristics* ±30 ppm / °C; ±0.54 % ±15 % ±15 %	
NP004026R8D025DFCT10000	NP00402151J025DFCT10000	NP00402100J050DFCT10000	NP00402221J050DFCT10000	X7R0402681K025DFCT10000	X7R0402153K025DFCT10000	X7R0402471K050DFCT10000	X7R0402103K050DFCT10000	X5R0402104M025DFCT10000			
6.8 pF, ±0.5 pF, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	150 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	10 pF, ±5 %, H=0.5 mm Q≥400+20 C, IR≥10 GΩ	220 pF, ±5 %, H=0.5 mm Q≥1000, IR≥10 GΩ	680 pF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	15 nF, ±10 %, H=0.5 mm DF≤3.5 %, IR≥10 GΩ	470 pF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	10 nF, ±10 %, H=0.5 mm DF≤2.5 %, IR≥10 GΩ	100 nF, ±20 %, H=0.5 mm DF≤10 %, IR≥5 GΩ			



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