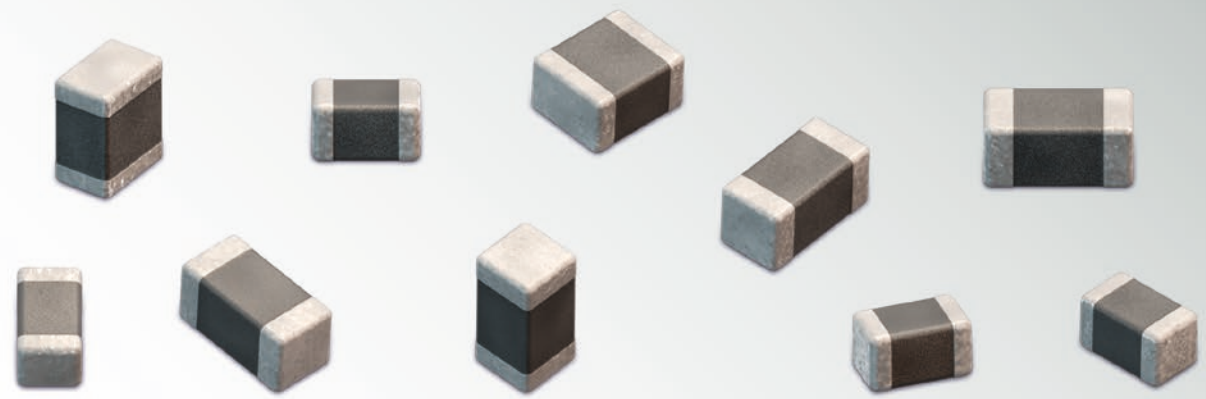




DESIGN KIT

WCAP-CSGP Multilayer Ceramic Chip Capacitors 0402



SIZE:
0402

TECHNICAL DATA:

Capacitance Range: 1pF ~ 4.7µF
Rated Voltages: 6.3V, 10V, 16V, 25V, 50V
Dielectrics: NPO, X7R, X5R
Termination: Cu / Ni / Sn

Order Code 885 050
Version 1.0

WCAP-CSGP

Multilayer Ceramic Chip Capacitors 0402

NPO		X7R		X5R				
885 012 005 017 10V NP00402471J010DFCT10000 470pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 040 25V NP00402100J025DFCT10000 10pF, ±5%, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 048 25V NP00402221J025DFCT10000 200pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 056 50V NP00402150J050DFCT10000 15pF, ±5%, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 205 036 16V X7R0402683K016DFCT10000 68,000pF, ±10%, H=0.5mm DF≤5%, IR≥ 7.4G Ohm	885 012 205 044 25V X7R0402102K025DFCT10000 1,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 052 25V X7R0402223K025DFCT10000 22,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 060 50V X7R0402681K050DFCT10000 680pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 008 6.3V X5R0402475M6R3DFCT10000 4.7μF, ±20%, H=0.5mm DF≤20%, IR≥ 0.02G Ohm
885 012 005 018 10V NP00402102J010DFCT10000 1,000pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 041 25V NP00402150J025DFCT10000 15pF, ±5%, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 049 50V NP004021R0D050DFCT10000 1.0pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 057 50V NP00402220J050DFCT10000 22pF, ±5%, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 205 037 16V X7R0402104K016DFCT10000 100,000pF, ±10%, H=0.5mm DF≤5%, IR≥ 5G Ohm	885 012 205 045 25V X7R0402152K025DFCT10000 1,500pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 053 25V X7R0402333K025DFCT10000 33,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 061 50V X7R0402102K050DFCT10000 1,000pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 012 10V X5R0402105M010DFCT10000 1μF, ±20%, H=0.5mm DF≤15%, IR≥ 0.10G Ohm
885 012 005 034 25V NP004021R0D025DFCT10000 1.0pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 042 25V NP00402220J025DFCT10000 22pF, ±5%, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 050 50V NP004021R5D050DFCT10000 1.5pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 058 50V NP00402330J050DFCT10000 33pF, ±5%, T=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 038 25V X7R0402101K025DFCT10000 100pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 046 25V X7R0402222K025DFCT10000 2,200pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 054 25V X7R0402473K025DFCT10000 47,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 062 50V X7R0402152K050DFCT10000 1,500pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 013 10V X5R0402225M010DFCT10000 2.2μF, ±20%, H=0.5mm DF≤15%, IR≥ 0.05G Ohm
885 012 005 035 25V NP004021R5D025DFCT10000 1.5pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 043 25V NP00402330J025DFCT10000 33pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 051 50V NP004022R2D050DFCT10000 2.2pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 059 50V NP00402470J050DFCT10000 47pF, ±5%, H=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 039 25V X7R0402151K025DFCT10000 150pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 047 25V X7R0402332K025DFCT10000 3,300pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 055 50V X7R0402101K050DFCT10000 100pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 205 063 50V X7R0402222K050DFCT10000 2,200pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 014 16V X5R0402333M016DFCT10000 33,000pF, ±20%, H=0.5mm DF≤5%, IR≥ 10G Ohm
885 012 005 036 25V NP004022R2D025DFCT10000 2.2pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 044 25V NP00402470J025DFCT10000 47pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 052 50V NP004023R3D050DFCT10000 3.3pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 060 50V NP00402680J050DFCT10000 68pF, ±5%, H=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 040 25V X7R0402221K025DFCT10000 220pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 048 25V X7R0402472K025DFCT10000 4,700pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 056 50V X7R0402151K050DFCT10000 150pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 205 064 50V X7R0402332K050DFCT10000 3,300pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 015 16V X5R0402473M016DFCT10000 47,000pF, ±20%, H=0.5mm DF≤5%, IR≥ 10G Ohm
885 012 005 037 25V NP004023R3D025DFCT10000 3.3pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 045 25V NP00402680J025DFCT10000 68pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 053 50V NP004024R7D050DFCT10000 4.7pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 061 50V NP00402101J050DFCT10000 100pF, ±5%, H=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 041 25V X7R0402331K025DFCT10000 330pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 049 25V X7R0402682K025DFCT10000 6,800pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 057 50V X7R0402221K050DFCT10000 220pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 205 065 50V X7R0402472K050DFCT10000 4,700pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 016 16V X5R0402104M016DFCT10000 100,000pF, ±20%, H=0.5mm DF≤5%, IR≥ 5G Ohm
885 012 005 038 25V NP004024R7D025DFCT10000 4.7pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 046 25V NP00402101J025DFCT10000 100pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 054 50V NP004026R8D050DFCT10000 6.8pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 062 50V NP00402151J050DFCT10000 150pF, ±5%, H=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 042 25V X7R0402471K025DFCT10000 470pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 050 25V X7R0402103K025DFCT10000 10,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 058 50V X7R0402331K050DFCT10000 330pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 205 066 50V X7R0402682K050DFCT10000 6,800pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 017 16V X5R0402224M016DFCT10000 220,000pF, ±20%, H=0.5mm DF≤10%, IR≥ 0.5G Ohm
885 012 200 503 9 25V NP004026R8D025DFCT10000 6.8pF, ±0.5pF, H=0.5mm Q≥400+20C, IR≥10G Ohm	885 012 005 047 25V NP00402151J025DFCT10000 10pF, ±5%, H=0.5mm Q≥1000, IR≥10G Ohm	885 012 005 055 50V NP00402100J050DFCT10000 10pF, ±5%, H=0.5mm Q≥400+20C, IR≥ 10G Ohm	885 012 005 063 50V NP00402221J050DFCT10000 220pF, ±5%, H=0.5mm Q≥1000, IR≥ 10G Ohm	885 012 205 043 25V X7R0402681K025DFCT10000 680pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 051 25V X7R0402153K025DFCT10000 15,000pF, ±10%, H=0.5mm DF≤3.5%, IR≥ 10G Ohm	885 012 205 059 50V X7R0402471K050DFCT10000 470pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 205 067 50V X7R0402103K050DFCT10000 10,000pF, ±10%, H=0.5mm DF≤2.5%, IR≥ 10G Ohm	885 012 105 018 25V X5R0402104M025DFCT10000 10,000pF, ±20%, H=0.5mm DF≤10%, IR≥ 5G Ohm

Dielectric	Operating Temperature
NPO	-55°C to +125°C
X7R	-55°C to +125°C
X5R	-55°C to +85°C

Dielectric	Capacitance Characteristics*
NPO	± 30ppm/°C; ± 0.54%/°C
X7R	± 15%
X5R	± 15%

*within Operating Temperature Range

6.3V
10V
16V
25V
50V



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