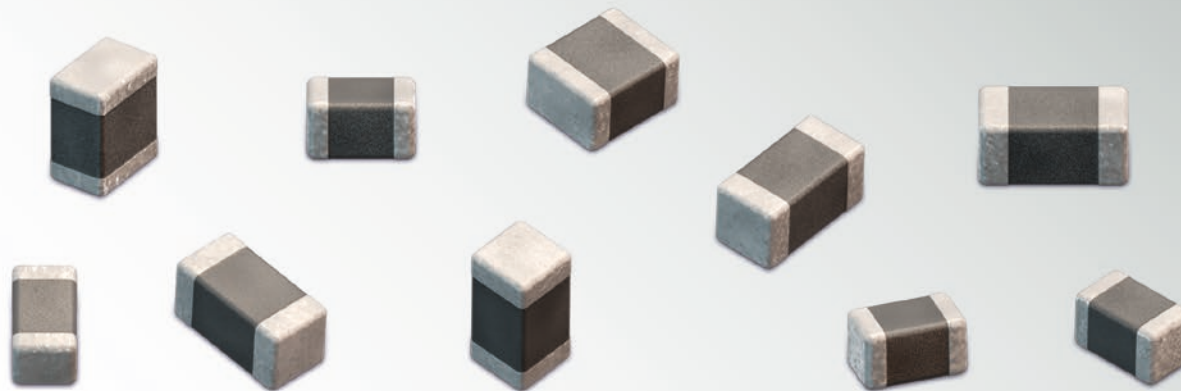




DESIGN KIT

WCAP-CSGP Multilayer Ceramic Chip Capacitors 1206 / 1210 / 1812



SIZE:

1206 / 1210 / 1812

TECHNICAL DATA:

Capacitance Range: 1000pF ~ 100µF
Rated Voltages: 6.3V, 10V, 16V, 25V, 50V
Dielectrics: NPO, X7R, X5R
Termination: Cu / Ni / Sn

Order Code 885 080

Version 1.0

WCAP-CSGP Multilayer Ceramic Chip Capacitors 1206 / 1210 / 1812

NP0 1206		X7R 1206		X5R 1206		NP0 1210		X7R 1210		X5R 1210		NP0 1812		X7R 1812	
885 012 208 010 10V NP0120633J010DFCT10000 33,000pF , ±5%, H=0.85mm Q≥1000, IR≥10G Ohm	885 012 208 019 10V X7R1206226K010DFCT10000 22μF , ±10%, H=1.6mm DF≤10%, IR≥0.005G Ohm	885 012 208 087 50V X7R1206104K050DFCT10000 100,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥5G Ohm	885 012 108 005 6.3V X5R1206107M6R3DFCT10000 100μF , ±20%, H=1.6mm DF≤15%, IR≥0.0005G Ohm	885 012 009 017 50V NP01210102J050DFCT10000 1,000pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 006 10V X7R1210226K010DFCT10000 22μF , ±10%, H=2.5mm DF≤10%, IR≥0.1G Ohm	885 012 109 004 6.3V X5R1210107M6R3DFCT10000 100μF , ±20%, H=2.5mm DF≤15%, IR≥0.001G Ohm	885 012 010 009 50V NP01812152J050DFCT10000 1,500pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 025 50V X7R1812104K050DFCT10000 100,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥5G Ohm							
885 012 208 049 50V NP01206102J050DFCT10000 1,000pF , ±5%, H=0.8mm Q≥1000, IR≥10G Ohm	885 012 208 069 25V X7R1206106K025DFCT10000 10μF , ±10%, H=1.6mm DF≤10%, IR≥0.01G Ohm	885 012 208 088 50V X7R1206154K050DFCT10000 150,000pF , ±10%, H=0.95mm DF≤2.5%, IR≥3.3G Ohm	885 012 108 012 10V X5R1206476M010DFCT10000 47μF , ±20%, H=1.6mm DF≤5%, IR≥0.02G Ohm	885 012 009 018 50V NP01210152J050DFCT10000 1,500pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 028 25V X7R1210106K025DFCT10000 10μF , ±10%, H=2.0mm DF≤5%, IR≥0.1G Ohm	885 012 109 008 16V X5R1210475M016DFCT10000 4.7μF , ±20%, H=2.0mm DF≤5%, IR≥0.1G Ohm	885 012 010 010 50V NP01812332J050DFCT10000 3,300pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 026 50V X7R1812154K050DFCT10000 150,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥3.3G Ohm							
885 012 208 050 50V NP01206152J050DFCT10000 1,500pF , ±5%, H=0.8mm Q≥1000, IR≥10G Ohm	885 012 208 081 50V X7R1206103K050DFCT10000 10,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥10G Ohm	885 012 208 089 50V X7R1206224K050DFCT10000 220,000pF , ±10%, H=0.95mm DF≤2.5%, IR≥2.3G Ohm	885 012 108 015 16V X5R1206335M016DFCT10000 3.3μF , ±20%, H=1.6mm DF≤5%, IR≥0.2G Ohm	885 012 009 019 50V NP01210222J050DFCT10000 2,200pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 043 50V X7R1210224K050DFCT10000 220,000pF , ±10%, H=0.95mm DF≤2.5%, IR≥2.3G Ohm	885 012 109 009 16V X5R1210106M016DFCT10000 10μF , ±20%, H=2.0mm DF≤5%, IR≥0.05G Ohm	885 012 010 011 50V NP01812472J050DFCT10000 4,700pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 027 50V X7R1812224K050DFCT10000 220,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥2.3G Ohm							
885 012 208 051 50V NP01206222J050DFCT10000 2,200pF , ±5%, H=0.8mm Q≥1000, IR≥10G Ohm	885 012 208 082 50V X7R1206153K050DFCT10000 15,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥10G Ohm	885 012 208 090 50V X7R1206334K050DFCT10000 330,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥1.5G Ohm	885 012 108 017 16V X5R1206106M016DFCT10000 10μF , ±20%, H=1.6mm DF≤10%, IR≥0.01G Ohm	885 012 009 020 50V NP01210332J050DFCT10000 3,300pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 044 50V X7R1210334K050DFCT10000 330,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥1.5G Ohm	885 012 109 010 16V X5R1210226M016DFCT10000 22μF , ±20%, H=2.50mm DF≤10%, IR≥0.02G Ohm	885 012 010 012 50V NP01812682J050DFCT10000 6,800pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 028 50V X7R1812334K050DFCT10000 330,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥1.5G Ohm							
885 012 208 052 50V NP01206332J050DFCT10000 3,300pF , ±5%, H=0.8mm Q≥1000, IR≥10G Ohm	885 012 208 083 50V X7R1206223K050DFCT10000 22,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥10G Ohm	885 012 208 091 50V X7R1206474K050DFCT10000 470,000pF , ±10%, H=1.6mm DF≤3%, IR≥1.1G Ohm	885 012 108 018 16V X5R1206226M016DFCT10000 22μF , ±20%, H=1.6mm DF≤10%, IR≥0.005G Ohm	885 012 009 021 50V NP01210472J050DFCT10000 4,700pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 045 50V X7R1210474K050DFCT10000 470,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥1.1G Ohm	885 012 109 011 16V X5R1210476M016DFCT10000 47μF , ±20%, H=2.50mm DF≤10%, IR≥0.002G Ohm	885 012 010 013 50V NP01812103J050DFCT10000 10,000pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 029 50V X7R1812474K050DFCT10000 470,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥1.1G Ohm							
885 012 208 053 50V NP01206472J050DFCT10000 4,700pF , ±5%, H=0.8mm Q≥1000, IR≥10G Ohm	885 012 208 084 50V X7R1206333K050DFCT10000 33,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥10G Ohm	885 012 208 092 50V X7R1206684K050DFCT10000 680,000pF , ±10%, H=1.6mm DF≤3%, IR≥0.7G Ohm	885 012 108 019 25V X5R1206225M025DFCT10000 2.2μF , ±20%, H=1.6mm DF≤3.5%, IR≥0.2G Ohm	885 012 009 022 50V NP01210682J050DFCT10000 6,800pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 046 50V X7R1210684K050DFCT10000 680,000pF , ±10%, H=1.25mm DF≤2.5%, IR≥0.7G Ohm	885 012 109 012 25V X5R1210475M025DFCT10000 4.7μF , ±20%, H=2.0mm DF≤3.5%, IR≥0.1G Ohm	885 012 010 014 50V NP01812153J050DFCT10000 15,000pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 030 50V X7R1812684K050DFCT10000 680,000pF , ±10%, H=2.0mm DF≤2.5%, IR≥0.7G Ohm							
885 012 208 054 50V NP01206682J050DFCT10000 6,800pF , ±5%, H=0.95mm Q≥1000, IR≥10G Ohm	885 012 208 085 50V X7R1206473K050DFCT10000 47,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥10G Ohm	885 012 208 093 50V X7R1206105K050DFCT10000 1μF , ±10%, H=1.6mm DF≤3%, IR≥0.5G Ohm	885 012 108 020 25V X5R1206475M025DFCT10000 4.7μF , ±20%, H=1.6mm DF≤7%, IR≥0.1G Ohm	885 012 009 023 50V NP01210103J050DFCT10000 10,000pF , ±5%, H=0.95mm Q≥1000, IR≥ 10G Ohm	885 012 209 047 50V X7R1210105K050DFCT10000 1μF , ±10%, H=1.25mm DF≤2.5%, IR≥0.5G Ohm	885 012 109 013 25V X5R1210106M025DFCT10000 10μF , ±20%, H=2.0mm DF≤5%, IR≥0.01G Ohm	885 012 010 015 50V NP01812223J050DFCT10000 22,000pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 031 50V X7R1812105K050DFCT10000 1μF , ±10%, H=2.0mm DF≤2.5%, IR≥0.5G Ohm							
885 012 208 055 50V NP01206103J050DFCT10000 10,000pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 208 086 50V X7R1206683K050DFCT10000 68,000pF , ±10%, H=0.8mm DF≤2.5%, IR≥7.4G Ohm	885 012 208 094 50V X7R1206475K050DFCT10000 10μF , ±20%, H=1.6mm DF≤10%, IR≥0.02G Ohm	885 012 108 021 25V X5R1206106M025DFCT10000 10μF , ±20%, H=1.6mm DF≤10%, IR≥0.01G Ohm	885 012 009 024 50V NP01210153J050DFCT10000 15,000pF , ±5%, H=1.25mm Q≥1000, IR≥ 10G Ohm	885 012 209 048 50V X7R1210475K050DFCT10000 4.7μF , ±10%, H=2.50mm DF≤5%, IR≥0.02G Ohm	885 012 109 014 25V X5R1210226M025DFCT10000 22μF , ±20%, H=2.50mm DF≤10%, IR≥0.005G Ohm	885 012 010 016 50V NP01812333J050DFCT10000 33,000pF , ±5%, H=1.25mm Q≥1000, IR≥10G Ohm	885 012 210 032 50V X7R1812225K050DFCT10000 2.2μF , ±10%, H=2.50mm DF≤2.5%, IR≥0.2G Ohm							

Dielectric	Operating Temperature
NP0	-55°C to +125°C
X7R	-55°C to +125°C
X5R	-55°C to +85°C

Dielectric	Capacitance Characteristics*
NP0	± 30ppm/°C, ± 0.54%/°C
X7R	± 15%
X5R	± 15%

*within Operating Temperature Range

- 6.3V
- 10V
- 16V
- 25V
- 50V



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