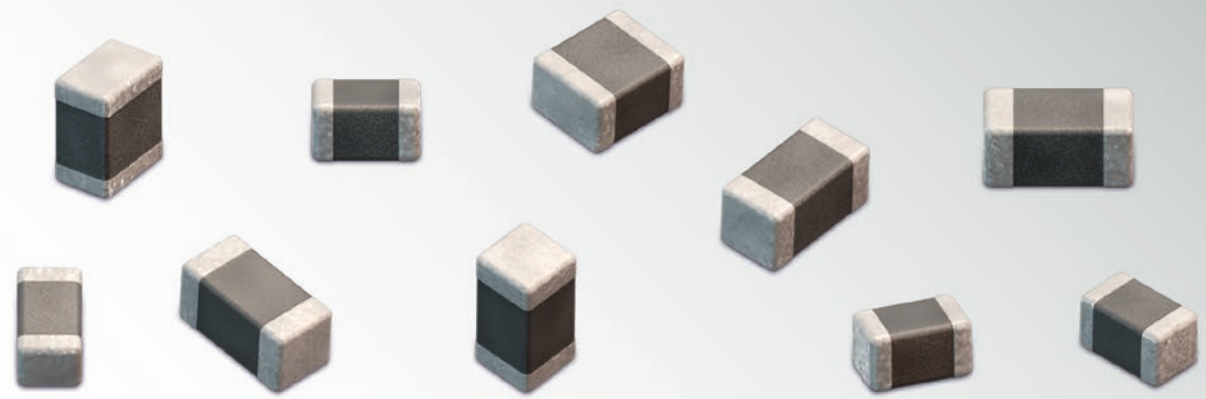




DESIGN KIT

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

NPO 1206		X7R 1206		X5R 1206		NPO 1210		X7R 1210		X5R 1210		NPO 1812		X7R 1812			
885 012 008 010 10V	885 012 208 019 10V	885 012 208 087 50V	885 012 108 005 6.3V	885 012 009 017 50V	885 012 209 006 10V	885 012 109 004 6.3V	885 012 010 009 50V	885 012 210 025 50V	885 012 008 049 50V	885 012 208 069 25V	885 012 208 088 50V	885 012 108 012 10V	885 012 009 018 50V	885 012 209 028 25V	885 012 109 008 16V	885 012 010 010 50V	885 012 210 026 50V
NP01206333J010DFCT10000 33,000pF, +/-5%, T=0.85mm Q>=1000, IR>=10G Ohm	X7R1206226K010DFCT10000 22µF, +/-10%, T=1.60mm DF<=10%, IR>=0.005G Ohm	X7R1206104K050DFCT10000 100,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=5G Ohm	X5R1206107M6R3DFCT10000 100µF, +/-20%, T=1.60mm DF<=15%, IR>=0.0005G Ohm	NP01210102J050DFCT10000 1,000pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210226K010DFCT10000 22µF, +/-10%, T=2.5mm DF<=10%, IR>=0.1G Ohm	X5R1210107M6R3DFCT10000 100µF, +/-20%, T=2.5mm DF<=15%, IR>=0.001G Ohm	NP01812152J050DFCT10000 1,500pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1210226K010DFCT10000 22µF, +/-10%, T=2.5mm DF<=10%, IR>=0.1G Ohm	NP01206102J050DFCT10000 1,000pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	X7R1206106K025DFCT10000 10µF, +/-10%, T=1.60mm DF<=10%, IR>=0.01G Ohm	X7R1206154K050DFCT10000 150,000pF, +/-10%, T=0.95mm DF<=2.5%, IR>=3.3G Ohm	X5R1206476M010DFCT10000 47µF, +/-20%, T=1.60mm DF<=10%, IR>=0.002G Ohm	NP01210152J050DFCT10000 1,500pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210106K025DFCT10000 10µF, +/-10%, T=2.00mm DF<=5%, IR>=0.1G Ohm	X5R1210475M016DFCT10000 4.7µF, +/-20%, T=2.00mm DF<=5%, IR>=0.1G Ohm	NP01812332J050DFCT10000 3,300pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812154K050DFCT10000 150,000pF, +/-10%, T=1.25mm DF<=2.5%, IR>=3.3G Ohm
885 012 008 050 50V	885 012 208 081 50V	885 012 208 089 50V	885 012 108 015 16V	885 012 009 019 50V	885 012 209 043 50V	885 012 109 009 16V	885 012 010 011 50V	885 012 210 027 50V	885 012 008 051 50V	885 012 208 082 50V	885 012 208 090 50V	885 012 108 017 16V	885 012 009 020 50V	885 012 209 044 50V	885 012 109 010 16V	885 012 010 012 50V	885 012 210 028 50V
NP01206152J050DFCT10000 1,500pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	X7R1206103K050DFCT10000 10,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=10G Ohm	X7R1206224K050DFCT10000 220,000pF, +/-10%, T=0.95mm DF<=2.5%, IR>=2.3G Ohm	X5R1206335M016DFCT10000 3.3µF, +/-20%, T=1.60mm DF<=5%, IR>=0.2G Ohm	NP01210222J050DFCT10000 2,200pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210224K050DFCT10000 220,000µF, +/-10%, T=0.95mm DF<=2.5%, IR>=2.3G Ohm	X5R1210106M016DFCT10000 10µF, +/-20%, T=2.00mm DF<=5%, IR>=0.05G Ohm	NP01812472J050DFCT10000 4,700pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812224K050DFCT10000 220,000pF, +/-10%, T=1.25mm DF<=2.5%, IR>=2.3G Ohm	NP01206222J050DFCT10000 2,200pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	X7R1206153K050DFCT10000 15,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=10G Ohm	X7R1206334K050DFCT10000 330,000pF, +/-10%, T=1.25mm DF<=2.5%, IR>=1.5G Ohm	X5R1206106M016DFCT10000 10µF, +/-20%, T=1.60mm DF<=10%, IR>=0.01G Ohm	NP01210332J050DFCT10000 3,300pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210334K050DFCT10000 330,000µF, +/-10%, T=1.25mm DF<=2.5%, IR>=1.5G Ohm	X5R1210226M016DFCT10000 22µF, +/-20%, T=2.50mm DF<=10%, IR>=0.02G Ohm	NP01812682J050DFCT10000 6,800pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812334K050DFCT10000 330,000pF, +/-10%, T=1.25mm DF<=2.5%, IR>=1.5G Ohm
885 012 008 052 50V	885 012 208 083 50V	885 012 208 091 50V	885 012 108 018 16V	885 012 009 021 50V	885 012 209 045 50V	885 012 109 011 16V	885 012 010 013 50V	885 012 210 029 50V	885 012 008 053 50V	885 012 208 084 50V	885 012 208 092 50V	885 012 108 019 25V	885 012 009 022 50V	885 012 209 046 50V	885 012 109 012 25V	885 012 010 014 50V	885 012 210 030 50V
NP01206332J050DFCT10000 3,300pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	X7R1206223K050DFCT10000 22,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=10G Ohm	X7R1206474K050DFCT10000 470,000pF, +/-10%, T=1.60mm DF<=3%, IR>=1.1G Ohm	X5R1206226M016DFCT10000 22µF, +/-20%, T=1.60mm DF<=10%, IR>=0.005G Ohm	NP01210472J050DFCT10000 4,700pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210474K050DFCT10000 470,000µF, +/-10%, T=1.25mm DF<=2.5%, IR>=1.1G Ohm	X5R1210476M016DFCT10000 47µF, +/-20%, T=2.50mm DF<=10%, IR>=0.002G Ohm	NP01812103J050DFCT10000 10,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812474K050DFCT10000 470,000pF, +/-10%, T=1.25mm DF<=2.5%, IR>=1.1G Ohm	NP01206472J050DFCT10000 4,700pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	X7R1206333K050DFCT10000 33,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=10G Ohm	X7R1206684K050DFCT10000 680,000pF, +/-10%, T=1.60mm DF<=3%, IR>=0.7G Ohm	X5R1206225M025DFCT10000 2.2µF, +/-20%, T=1.60mm DF<=3.5%, IR>=0.2G Ohm	NP01210682J050DFCT10000 6,800pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210684K050DFCT10000 680,000µF, +/-10%, T=1.25mm DF<=2.5%, IR>=0.7G Ohm	X5R1210475M025DFCT10000 4.7µF, +/-20%, T=2.00mm DF<=3.5%, IR>=0.1G Ohm	NP01812153J050DFCT10000 15,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812684K050DFCT10000 680,000pF, +/-10%, T=2.00mm DF<=2.5%, IR>=0.7G Ohm
885 012 008 054 50V	885 012 208 085 50V	885 012 208 093 50V	885 012 108 020 25V	885 012 009 023 50V	885 012 209 047 50V	885 012 109 013 25V	885 012 010 015 50V	885 012 210 031 50V	885 012 008 055 50V	885 012 208 086 50V	885 012 208 094 50V	885 012 108 021 25V	885 012 009 024 50V	885 012 209 048 50V	885 012 109 014 25V	885 012 010 016 50V	885 012 210 032 50V
NP01206682J050DFCT10000 6,800pF, +/-5%, T=0.95mm Q>=1000, IR>=10G Ohm	X7R1206473K050DFCT10000 47,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=10G Ohm	X7R1206105K050DFCT10000 1µF, +/-10%, T=1.60mm DF<=3%, IR>=0.5G Ohm	X5R1206475M025DFCT10000 4.7µF, +/-20%, T=1.60mm DF<=7%, IR>=0.1G Ohm	NP01210103J050DFCT10000 10,000pF, +/-5%, T=0.95mm Q>=1000, IR>= 10G Ohm	X7R1210105K050DFCT10000 1µF, +/-10%, T=1.25mm DF<=2.5%, IR>=0.5G Ohm	X5R1210106M025DFCT10000 10µF, +/-20%, T=2mm DF<=5%, IR>=0.01G Ohm	NP01812223J050DFCT10000 22,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812105K050DFCT10000 1µF, +/-10%, T=2.00mm DF<=2.5%, IR>=0.5G Ohm	NP01206103J050DFCT10000 10,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1206683K050DFCT10000 68,000pF, +/-10%, T=0.8mm DF<=2.5%, IR>=7.4G Ohm	X7R1206475K050DFCT10000 4.7µF, +/-10%, T=1.60mm DF<=10%, IR>=0.02G Ohm	X5R1206106M025DFCT10000 10µF, +/-20%, T=1.60mm DF<=10%, IR>=0.01G Ohm	NP01215103J050DFCT10000 15,000pF, +/-5%, T=1.25mm Q>=1000, IR>= 10G Ohm	X7R1210475K050DFCT10000 4.7µF, +/-10%, T=2.50mm DF<=2.5%, IR>=0.02G Ohm	X5R1210226M025DFCT10000 22µF, +/-20%, T=2.50mm DF<=10%, IR>=0.005G Ohm	NP01812333J050DFCT10000 33,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	X7R1812225K050DFCT10000 2.2µF, +/-10%, T=2.50mm DF<=2.5%, IR>=0.2G 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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