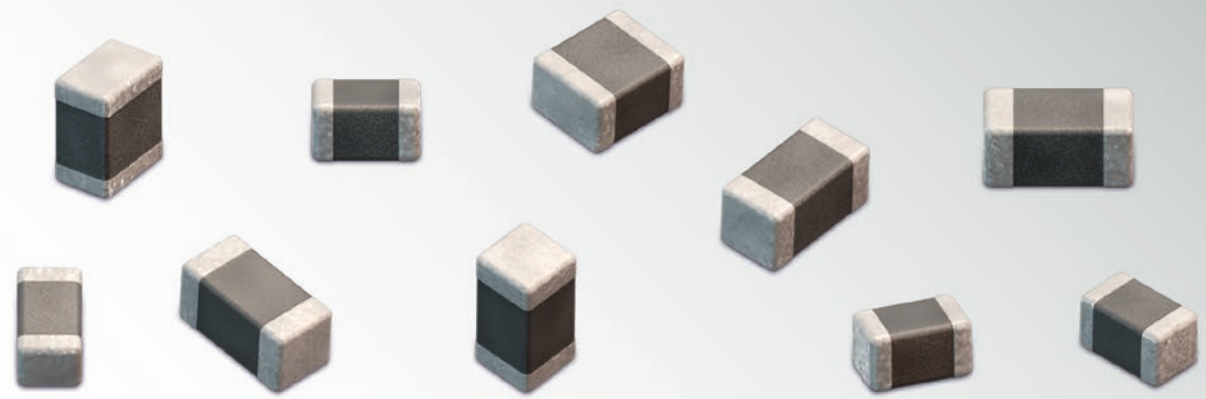




DESIGN KIT

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			
885 012 208 010 10V	NP0120633J010DFCT10000	885 012 208 019 10V	X7R1206226K010DFCT10000	885 012 208 087 50V	X7R1206104K050DFCT10000	885 012 108 005 6.3V	X5R1206107M6R3DFCT10000	885 012 209 017 50V	X7R1210102J050DFCT10000	885 012 209 006 10V	X7R1210226K010DFCT10000	885 012 109 004 6.3V	X5R1210107M6R3DFCT10000	885 012 210 009 50V	NP01812152J050DFCT10000	885 012 210 025 50V	X7R1812104K050DFCT10000
33,000pF, ±5%, H=0.85mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		22µF, ±10%, H=1.6mm DF≤10%, IR ₂ ≥0.005G Ohm		100,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥5G Ohm		100µF, ±20%, H=1.6mm DF≤15%, IR ₂ ≥0.0005G Ohm		1,000pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		22µF, ±10%, H=2.5mm DF≤5%, IR ₂ ≥0.1G Ohm		100µF, ±20%, H=2.5mm DF≤15%, IR ₂ ≥0.001G Ohm		1,500pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		100,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥5G Ohm	
885 012 208 049 50V	NP01206102J050DFCT10000	885 012 208 069 25V	X7R1206106K025DFCT10000	885 012 208 088 50V	X7R1206154K050DFCT10000	885 012 108 012 10V	X5R1206476M010DFCT10000	885 012 209 018 50V	NP01210152J050DFCT10000	885 012 209 028 25V	X7R1210106K025DFCT10000	885 012 109 008 16V	X5R1210475M016DFCT10000	885 012 210 010 50V	NP01812332J050DFCT10000	885 012 210 026 50V	X7R1812154K050DFCT10000
1,000pF, ±5%, H=0.8mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		10µF, ±10%, H=1.6mm DF≤10%, IR ₂ ≥0.01G Ohm		150,000pF, ±10%, H=0.95mm DF≤2.5%, IR ₂ ≥3.3G Ohm		47µF, ±20%, H=1.6mm DF≤5%, IR ₂ ≥0.02G Ohm		1,500pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		10µF, ±10%, H=2.0mm DF≤5%, IR ₂ ≥0.1G Ohm		4.7µF, ±20%, H=2.0mm DF≤5%, IR ₂ ≥0.1G Ohm		3,300pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		150,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥3.3G Ohm	
885 012 208 050 50V	NP01206152J050DFCT10000	885 012 208 081 50V	X7R1206103K050DFCT10000	885 012 208 089 50V	X7R1206224K050DFCT10000	885 012 108 015 16V	X5R1206335M016DFCT10000	885 012 209 019 50V	NP01210222J050DFCT10000	885 012 209 043 50V	X7R1210224K050DFCT10000	885 012 109 009 16V	X5R1210106M016DFCT10000	885 012 210 011 50V	NP01812472J050DFCT10000	885 012 210 027 50V	X7R1812224K050DFCT10000
1,500pF, ±5%, H=0.8mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		10,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥10G Ohm		220,000pF, ±10%, H=0.95mm DF≤2.5%, IR ₂ ≥2.3G Ohm		3.3µF, ±20%, H=1.6mm DF≤5%, IR ₂ ≥0.2G Ohm		2,200pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		220,000pF, ±10%, H=0.95mm DF≤2.5%, IR ₂ ≥2.3G Ohm		10µF, ±20%, H=2.0mm DF≤5%, IR ₂ ≥0.05G Ohm		4,700pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		4,700pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm	
885 012 208 051 50V	NP01206222J050DFCT10000	885 012 208 082 50V	X7R1206153K050DFCT10000	885 012 208 090 50V	X7R1206334K050DFCT10000	885 012 108 017 16V	X5R1206106M016DFCT10000	885 012 209 020 50V	NP01210332J050DFCT10000	885 012 209 044 50V	X7R1210334K050DFCT10000	885 012 109 010 16V	X5R1210226M016DFCT10000	885 012 210 012 50V	NP01812682J050DFCT10000	885 012 210 028 50V	X7R1812334K050DFCT10000
2,200pF, ±5%, H=0.8mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		15,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥10G Ohm		330,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥1.5G Ohm		10µF, ±20%, H=1.6mm DF≤10%, IR ₂ ≥0.01G Ohm		3,300pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		330,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥1.5G Ohm		22µF, ±20%, H=2.50mm DF≤5%, IR ₂ ≥0.02G Ohm		6,800pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		6,800pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm	
885 012 208 052 50V	NP01206332J050DFCT10000	885 012 208 083 50V	X7R1206223K050DFCT10000	885 012 208 091 50V	X7R1206474K050DFCT10000	885 012 108 018 16V	X5R1206226M016DFCT10000	885 012 209 021 50V	NP01210472J050DFCT10000	885 012 209 045 50V	X7R1210474K050DFCT10000	885 012 109 011 16V	X5R1210476M016DFCT10000	885 012 210 013 50V	NP01812103J050DFCT10000	885 012 210 029 50V	X7R1812474K050DFCT10000
3,300pF, ±5%, H=0.8mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		22,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥10G Ohm		470,000pF, ±10%, H=1.6mm DF≤3%, IR ₂ ≥1.1G Ohm		22µF, ±20%, H=1.6mm DF≤10%, IR ₂ ≥0.005G Ohm		4,700pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		470,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥1.1G Ohm		47µF, ±20%, H=2.50mm DF≤5%, IR ₂ ≥0.02G Ohm		10,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		10,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm	
885 012 208 053 50V	NP01206472J050DFCT10000	885 012 208 084 50V	X7R1206333K050DFCT10000	885 012 208 092 50V	X7R1206684K050DFCT10000	885 012 108 019 25V	X5R1206225M025DFCT10000	885 012 209 022 50V	NP01210682J050DFCT10000	885 012 209 046 50V	X7R1210684K050DFCT10000	885 012 109 012 25V	X5R1210475M025DFCT10000	885 012 210 014 50V	NP01812153J050DFCT10000	885 012 210 030 50V	X7R1812684K050DFCT10000
4,700pF, ±5%, H=0.8mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		33,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥10G Ohm		680,000pF, ±10%, H=1.6mm DF≤3%, IR ₂ ≥0.7G Ohm		2.2µF, ±20%, H=1.6mm DF≤3.5%, IR ₂ ≥0.2G Ohm		6,800pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		680,000pF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥0.7G Ohm		4.7µF, ±20%, H=2.0mm DF≤5%, IR ₂ ≥0.1G Ohm		15,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		15,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm	
885 012 208 054 50V	NP01206682J050DFCT10000	885 012 208 085 50V	X7R1206473K050DFCT10000	885 012 208 093 50V	X7R1206105K050DFCT10000	885 012 108 020 25V	X5R1206475M025DFCT10000	885 012 209 023 50V	NP01210103J050DFCT10000	885 012 209 047 50V	X7R1210105K050DFCT10000	885 012 109 013 25V	X5R1210106M025DFCT10000	885 012 210 015 50V	NP01812223J050DFCT10000	885 012 210 031 50V	X7R1812105K050DFCT10000
6,800pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		47,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥10G Ohm		1µF, ±10%, H=1.6mm DF≤3%, IR ₂ ≥0.5G Ohm		4.7µF, ±20%, H=1.6mm DF≤7%, IR ₂ ≥0.1G Ohm		10,000pF, ±5%, H=0.95mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		1µF, ±10%, H=1.25mm DF≤2.5%, IR ₂ ≥0.5G Ohm		10µF, ±20%, H=2.0mm DF≤5%, IR ₂ ≥0.01G Ohm		22,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		22,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm	
885 012 208 055 50V	NP01206103J050DFCT10000	885 012 208 086 50V	X7R1206683K050DFCT10000	885 012 208 094 50V	X7R1206475K050DFCT10000	885 012 108 021 25V	X5R1206106M025DFCT10000	885 012 209 024 50V	NP01210153J050DFCT10000	885 012 209 048 50V	X7R1210475K050DFCT10000	885 012 109 014 25V	X5R1210226M025DFCT10000	885 012 210 016 50V	NP01812333J050DFCT10000	885 012 210 032 50V	X7R1812225K050DFCT10000
10,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		68,000pF, ±10%, H=0.8mm DF≤2.5%, IR ₂ ≥7.4G Ohm		4.7µF, ±10%, H=1.6mm DF≤10%, IR ₂ ≥0.02G Ohm		10µF, ±20%, H=1.6mm DF≤10%, IR ₂ ≥0.01G Ohm		15,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		4.7µF, ±10%, H=2.50mm DF≤5%, IR ₂ ≥0.02G Ohm		4.7µF, ±10%, H=2.50mm DF≤5%, IR ₂ ≥0.02G Ohm		33,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G Ohm		33,000pF, ±5%, H=1.25mm Q ₂ ≥1000, IR ₂ ≥10G 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



EMC COMPONENTS | INDUCTORS | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CAPACITORS | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

Important information: Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

Please check datasheets on www.we-online.com for specifications. Würth Elektronik eiSos GmbH & Co. KG, EMC & Inductive Solutions. © 2015

www.we-online.com

All products
ex stock!



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.