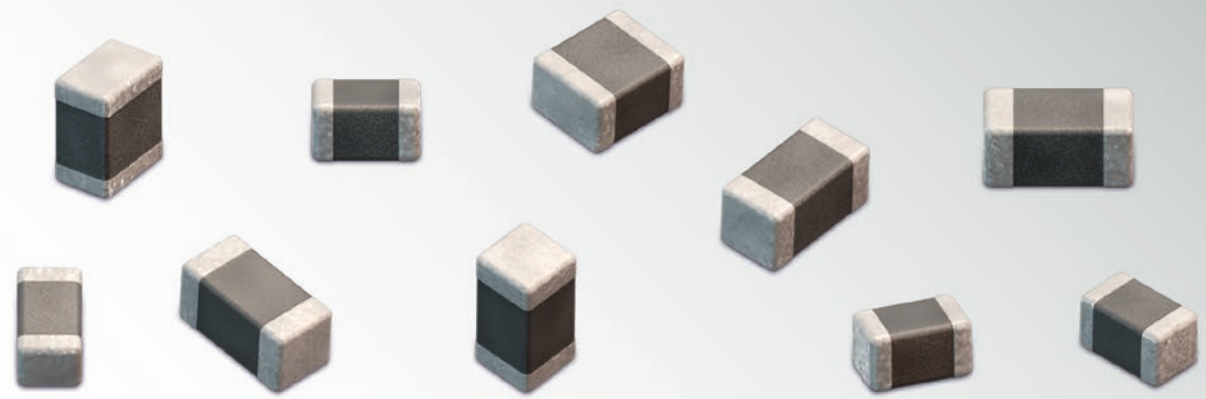




# DESIGN KIT

## WCAP-CSGP Multilayer Ceramic Chip Capacitors 0805



**SIZE:**  
0805

**TECHNICAL DATA:**

Capacitance Range: 1pF ~ 47µF  
Rated Voltages: 6.3V, 10V, 16V, 25V, 50V  
Dielectrics: NPO, X7R, X5R  
Termination: Cu / Ni / Sn

**Order Code 885 070**  
**Version 1.0**

# WCAP-CSGP

## Multilayer Ceramic Chip Capacitors 0805

NPO		X7R		X5R	
<b>885 012 007 009</b> 10V	<b>885 012 007 044</b> 25V	<b>885 012 007 052</b> 50V	<b>885 012 007 060</b> 50V	<b>885 012 207 026</b> 10V	<b>885 012 207 080</b> 50V
NP00805103J010DFCT10000	NP00805472J025DFCT10000	NP00805150J050DFCT10000	NP00805331J050DFCT10000	X7R0805106K010DFCT10000	X7R0805101K050DFCT10000
10,000pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	4,700pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	15pF, +/-5%, T=0.60mm Q>=400+20C, IR>=10G Ohm	330pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	10µF, +/-10%, T=1.25mm DF<=10%, IR>=0.01G Ohm	100pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 037</b> 25V	<b>885 012 007 045</b> 50V	<b>885 012 007 053</b> 50V	<b>885 012 007 061</b> 50V	<b>885 012 207 053</b> 16V	<b>885 012 207 081</b> 50V
NP00805331J025DFCT10000	NP008051R0D050DFCT10000	NP0080522J050DFCT10000	NP00805471J050DFCT10000	X7R0805475K016DFCT10000	X7R0805151K050DFCT10000
330pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	1pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	22pF, +/-5%, T=0.60mm Q>=400+20C, IR>=10G Ohm	470pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	4.7µF, +/-10%, T=1.25mm DF<=10%, IR>=0.02G Ohm	150pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 038</b> 25V	<b>885 012 007 046</b> 50V	<b>885 012 007 054</b> 50V	<b>885 012 007 062</b> 50V	<b>885 012 207 074</b> 25V	<b>885 012 207 082</b> 50V
NP00805471J025DFCT10000	NP008051R5D050DFCT10000	NP00805330J050DFCT10000	NP00805681J050DFCT10000	X7R0805224K025DFCT10000	X7R0805221K050DFCT10000
470pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	1.5pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	33pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	680pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	220,000pF, +/-10%, T=1.25mm DF<=3.5%, IR>=2.3G Ohm	220pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 039</b> 25V	<b>885 012 007 047</b> 50V	<b>885 012 007 055</b> 50V	<b>885 012 007 063</b> 50V	<b>885 012 207 075</b> 25V	<b>885 012 207 083</b> 50V
NP00805681J025DFCT10000	NP008052R2D050DFCT10000	NP0080547J050DFCT10000	NP00805102J050DFCT10000	X7R0805334K025DFCT10000	X7R0805331K050DFCT10000
680pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	2.2pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	47pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	1,000pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	330,000pF, +/-10%, T=1.25mm DF<=3.5%, IR>=1.5G Ohm	330pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 040</b> 25V	<b>885 012 007 048</b> 50V	<b>885 012 007 056</b> 50V	<b>885 012 007 064</b> 50V	<b>885 012 207 076</b> 25V	<b>885 012 207 084</b> 50V
NP00805102J025DFCT10000	NP008053R3D050DFCT10000	NP00805680J050DFCT10000	NP00805152J050DFCT10000	X7R0805474K025DFCT10000	X7R0805471K050DFCT10000
1,000pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	3.3pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	68pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	1,500pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	470,000pF, +/-10%, T=1.25mm DF<=3.5%, IR>=1.1G Ohm	470pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 041</b> 25V	<b>885 012 007 049</b> 50V	<b>885 012 007 057</b> 50V	<b>885 012 007 065</b> 50V	<b>885 012 207 077</b> 25V	<b>885 012 207 085</b> 50V
NP00805152J025DFCT10000	NP008054R7D050DFCT10000	NP00805101J050DFCT10000	NP00805222J050DFCT10000	X7R0805684K025DFCT10000	X7R0805681K050DFCT10000
1,500pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	4.7pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	100pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	2,200pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	680,000pF, +/-10%, T=1.25mm DF<=3.5%, IR>=0.7G Ohm	680pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 042</b> 25V	<b>885 012 007 050</b> 50V	<b>885 012 007 058</b> 50V	<b>885 012 007 066</b> 50V	<b>885 012 207 078</b> 25V	<b>885 012 207 086</b> 50V
NP00805222J025DFCT10000	NP008056R8D050DFCT10000	NP00805151J050DFCT10000	NP00805332J050DFCT10000	X7R0805105K025DFCT10000	X7R0805102K050DFCT10000
2,200pF, +/-5%, T=0.80mm Q>=1000, IR>=10G Ohm	6.8pF, +/-0.5pF, T=0.60mm Q>=400+20C, IR>=10G Ohm	150pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	3,300pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	1µF, +/-10%, T=1.25mm DF<=5%, IR>=0.5G Ohm	1,000pF, +/-10%, T=0.80mm DF<=2.5%, IR>=10G Ohm
<b>885 012 007 043</b> 25V	<b>885 012 007 051</b> 50V	<b>885 012 007 059</b> 50V	<b>885 012 007 067</b> 50V	<b>885 012 207 079</b> 25V	<b>885 012 207 087</b> 50V
NP00805332J025DFCT10000	NP00805100J050DFCT10000	NP00805221J050DFCT10000	NP00805472J050DFCT10000	X7R0805225K025DFCT10000	X7R0805152K050DFCT10000
3,300pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	10pF, +/-5%, T=0.60mm Q>=400+20C, IR>=10G Ohm	220pF, +/-5%, T=0.60mm Q>=1000, IR>=10G Ohm	4,700pF, +/-5%, T=1.25mm Q>=1000, IR>=10G Ohm	2.2µF, +/-10%, T=1.25mm DF<=10%, IR>=0.05G Ohm	2.2µF, +/-10%, T=0.80mm DF<=2.5%, IR>=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



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