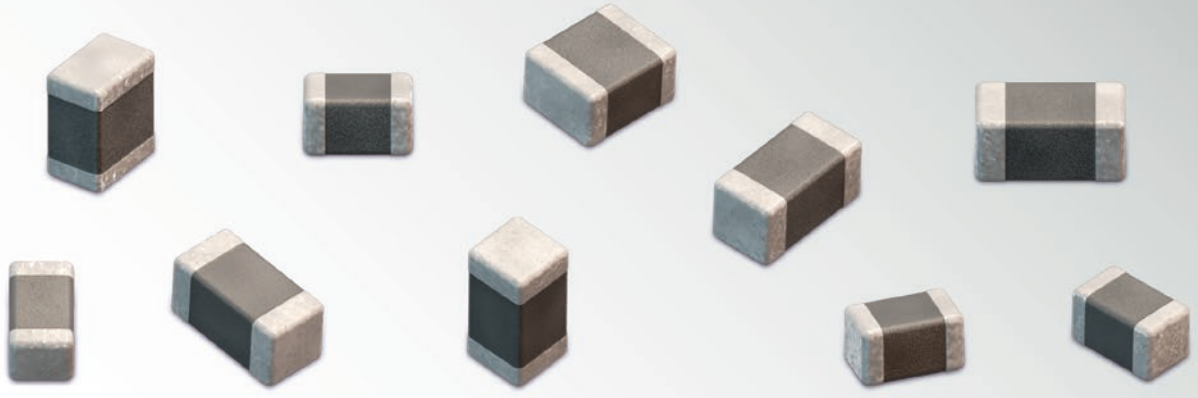
WÜRTH ELEKTRONIK

DESIGN KIT

WCAP-CSGP Multilayer Ceramic Chip Capacitors 100 V_{DC}



SIZE:
0603 / 0805 / 1206

TECHNICAL DATA:

Capacitance Range:	1 pF – 150 nF
Rated Voltages:	100 V_{DC}
Dielectrics:	NP0, X7R
Termination:	Cu / Ni / Sn

Order Code 885 090
Version 1.0

DESIGN KIT
WCAP-CSGP Multilayer Ceramic Chip Capacitors 100 V_{DC}

0603				0805				1206
NP0		X7R		NP0		X7R		X7R
885012006087	**885012006077**	**885012206102**	**885012206112**	**885012007094**	**885012007083**	**885012207110**	**885012207120**	**885012208106**
NP006031R0C100DFCT10000	NP00603470J100DFCT10000	X7R0603101K100DFCT10000	X7R0603472K100DFCT10000	NP008051R0C100DFCT10000	NP00805151J100DFCT10000	X7R0805101K100DFCT10000	X7R0805472K100DFCT10000	X7R1206102K100DFCT10000
1 pF ±0.25 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**47 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**100 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**4.7 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**1 pF** ±0.25 pF, H=0.6 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**150 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**100 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**4.7 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**1 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ
885012006089	**885012006078**	**885012206103**	**885012206113**	**885012007095**	**885012007085**	**885012207111**	**885012207121**	**885012208112**
NP006032R2C100DFCT10000	NP00603680J100DFCT10000	X7R0603151K100DFCT10000	X7R0603682K100DFCT10000	NP008053R3C100DFCT10000	NP00805331J100DFCT10000	X7R0805151K100DFCT10000	X7R0805682K100DFCT10000	X7R1206103K100DFCT10000
2.2 pF ±0.25 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**68 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**150 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**6.8 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**1 pF** ±0.25 pF, H=0.6 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**330 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**150 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**6.8 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**10 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ
885012006090	**885012006079**	**885012206105**	**885012206114**	**885012007096**	**885012007086**	**885012207113**	**885012207122**	**885012208113**
NP006033R3C100DFCT10000	NP00603101J100DFCT10000	X7R0603331K100DFCT10000	X7R0603103K100DFCT10000	NP008054R7C100DFCT10000	NP00805471J100DFCT10000	X7R0805331K100DFCT10000	X7R0805103K100DFCT10000	X7R1206153K100DFCT10000
3.3 pF ±0.25 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**100 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**330 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**10 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**4.7 pF** ±0.25 pF, H=0.6 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**470 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**330 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**10 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**15 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 6.7 GΩ
885012006091	**885012006080**	**885012206106**	**885012206118**	**885012007076**	**885012007087**	**885012207114**	**885012207123**	**885012208115**
NP006034R7C100DFCT10000	NP00603151J100DFCT10000	X7R0603471K100DFCT10000	X7R0603473K100DFCT10000	NP00805100J100DFCT10000	NP00805681J100DFCT10000	X7R0805471K100DFCT10000	X7R0805153K100DFCT10000	X7R1206333K100DFCT10000
4.7 pF ±0.25 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**150 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**470 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**47 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 2.1 GΩ	**10 pF** ±5 %, H=0.6 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**680 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**470 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**15 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 6.7 GΩ	**33 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 3 GΩ
885012006092	**885012006082**	**885012206107**	**885012206120**	**885012007079**	**885012007088**	**885012207115**	**885012207125**	**885012208116**
NP006035R6D100DFCT10000	NP00603331J100DFCT10000	X7R0603681K100DFCT10000	X7R0603104K100DFCT10000	NP00805330J100DFCT10000	NP00805102J100DFCT10000	X7R0805681K100DFCT10000	X7R0805333K100DFCT10000	X7R1206473K100DFCT10000
5.6 pF ±0.5 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**330 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**680 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**100 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 1 GΩ	**33 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**1 nF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**680 pF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**33 nF** ±10 %, H=1.25 mm DF ≤ 2.5 %, IR ≥ 3 GΩ	**47 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 2.1 GΩ
885012006093	**885012006083**	**885012206108**		**885012007080**	**885012007089**	**885012207116**	**885012207126**	**885012208117**
NP006038R2D100DFCT10000	NP00603471J100DFCT10000	X7R0603102K100DFCT10000		NP00805470J100DFCT10000	NP00805152J100DFCT10000	X7R0805102K100DFCT10000	X7R0805473K100DFCT10000	X7R1206683K100DFCT10000
8.2 pF ±0.5 pF, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**470 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**1 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ		**47 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**1.5 nF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**1 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**47 nF** ±10 %, H=1.25 mm DF ≤ 2.5 %, IR ≥ 2.1 GΩ	**68 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 1.5 GΩ
885012006073	**885012006084**	**885012206109**		**885012007081**	**885012007091**	**885012207117**	**885012207127**	**885012208118**
NP00603100J100DFCT10000	NP00603681J100DFCT10000	X7R0603152K100DFCT10000		NP00805680J100DFCT10000	NP00805332J100DFCT10000	X7R0805152K100DFCT10000	X7R0805683K100DFCT10000	X7R1206104K100DFCT10000
10 pF ±5 %, H=0.8 mm Q ≥ 400+20C, IR ≥ 10 GΩ	**680 pF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**1.5 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ		**68 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**3.3 nF** ±5 %, H=1.25 mm Q ≥ 1000, IR ≥ 10 GΩ	**1.5 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**68 nF** ±10 %, H=1.25 mm DF ≤ 2.5 %, IR ≥ 1.5 GΩ	**100 nF** ±10 %, H=1.25 mm DF ≤ 2.5 %, IR ≥ 1 GΩ
885012006076	**885012006085**	**885012206111**		**885012007082**	**885012007092**	**885012207119**	**885012207128**	**885012208119**
NP00603330J100DFCT10000	NP00603102J100DFCT10000	X7R0603332K100DFCT10000		NP00805101J100DFCT10000	NP00805472J100DFCT10000	X7R0805332K100DFCT10000	X7R0805104K100DFCT10000	X7R1206154K100DFCT10000
33 pF ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**1 nF** ±5 %, H=0.8 mm Q ≥ 1000, IR ≥ 10 GΩ	**3.3 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ		**100 pF** ±5 %, H=0.6 mm Q ≥ 1000, IR ≥ 10 GΩ	**4.7 nF** ±5 %, H=1.25 mm Q ≥ 1000, IR ≥ 10 GΩ	**3.3 nF** ±10 %, H=0.8 mm DF ≤ 2.5 %, IR ≥ 10 GΩ	**100 nF** ±10 %, H=1.25 mm DF ≤ 2.5 %, IR ≥ 1 GΩ	**150 nF** ±10 %, H=1.6 mm DF ≤ 2.5 %, IR ≥ 0.7 GΩ

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

Dielectric	Capacitance Characteristics*
NP0	±30 ppm / ±0,54 %
X7R	±15 %

*max. permissible capacitance change within specified temperature range

COMPLIANT RoHS&REACh WÜRTH ELEKTRONIK

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