

DATASHEET

C0603C0G500-8R0DNP

GENERAL PURPOSE CERAMIC CAPACITORS (C SERIES)
0603, C0G, 50V, 8pF, $\pm 0.5\text{pF}$, 100% matte Tin(Sn) over Nickel



VENKEL LTD.



SIZE SPECIFICATIONS units: inches

Length:	0.063
Width:	0.032
T(max):	0.033
Min E/B:	0.008
Size(EIA):	0603

COMPONENT SPECIFICATIONS

Category:	Ceramic Capacitors
Series:	General Purpose (C Series)
Size:	0603
Dielectric:	C0G
Voltage:	50V
Capacitance:	8pF
Tolerance:	$\pm 0.5\text{pF}$
Termination:	100% matte Tin(Sn) over Nickel
Packaging:	P
Quantity per Reel:	4,000

DIELECTRIC SPECIFICATIONS

Temperature Coefficient:	0 $\pm 30\text{PPM}/^\circ\text{C}$
Temperature Voltage Coefficient	0 $\pm 30\text{PPM}/^\circ\text{C}$
Ageing:	None
Withstanding Voltage:	2.5 times VDCW
Operating Temp:	-55 $^\circ\text{C}$ to +125 $^\circ\text{C}$
Dissipation Factor:	0.1% max

ENVIRONMENTAL INFORMATION

RoHS Status	6 of 6 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level	MSL1

REFLOW PROFILE

Max Reflow Temperature	260 $^\circ\text{C}$
Number of Reflow Cycles	2
Time at Max Reflow Temp.	10 sec

REEL DIMENSIONS units: mm

Tape	B min	C	A(7")	A(13")	D Min	N Min	G	T max
8mm	0.30	13 $\pm$.05	178 $\pm$ 2.0	330 $\pm$ 2.0	20.20	50.00	10 $\pm$ 1.5	14.90

TAPING SPECIFICATIONS units: mm

A	B	W	F	E	Po
1.10 $\pm$ 0.2	1.90 $\pm$ 0.2	8.0 $\pm$ 0.2	3.5 $\pm$ 0.1	1.75 $\pm$ 0.1	4.0 $\pm$ 0.1
Pz	D	T	P	To	T(E)
2.0 $\pm$ 0.05 - 0.0	1.5 $\pm$ 0.1	1.15 MAX	4.0 $\pm$ 0.1		