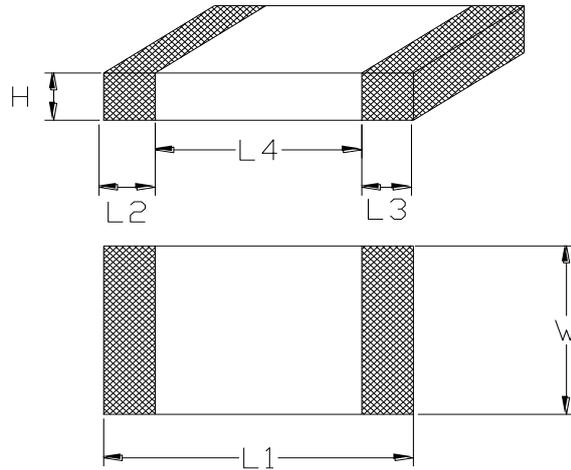


Multilayer Ceramic Chip Capacitor

1812Y2500105KSTWS2

Knowles offers Multilayer Ceramic Chip Capacitors of the highest quality and reliability for a range of demanding applications. Manufactured using our "Wet Process", the range encompasses 10V to 12kV capability, with a variety of termination options including FlexiCap™, the worlds first commercially available flexible termination.



Mechanical Specification

Size Code	1812
Length (L1) mm	4.5 ± 0.3
Width (W) mm	3.2 ± 0.2
Thickness (H) mm	3.0 Max.
Termination Bands (L2,L3) mm	0.25 - 1.143
Minimum Band Gap (L4) mm	2.15
Termination Material	100% Matte Sn over Ni, FlexiCap™ base
Solderability	IEC 60068-2-58
RoHS Compliant	2011/65/EU as amended by 2015/863/EU
Packaging	Taped and Reeled, 7 inch Reel

General Electrical Specification

Rated Voltage	250V
Nominal Capacitance Value	1µF
Capacitance Tolerance	± 10%
Tangent of Loss Angle (Tan δ)	≤0.025
Capacitance and Tan δ Test Conditions	1Vrms @ 1kHz
Voltage Proof	Rated Voltage + 250V
(Voltage applied for 5 secs max. @ 50mA max. charge current)	
Min Insulation Resistance (IR)	1.00GΩ
Dielectric Classification	X7R to AEC-Q200
Rated Temperature Range	-55°C to +125°C
Maximum Capacitance Change over	No DC Voltage ±15%
Temperature Range	Rated DC Voltage -
Climatic Category (IEC)	55/125/56
Ageing Characteristic	Less than 2% per time decade

This datasheet is for a standard item and is confirmed valid on the date generated, the latest published data for this part may differ and is available at www.knowlescapacitors.com/syfer or by contacting us at syfersales@knowles.com