Safety Capacitors

KGK (X1/Y2) & KGH (X2) SERIES

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KEY SPECIFICATIONS

Operating Temperature: -55 to +125°C

Rated Voltage: 250Vac

Dielectric: C0G, X7R

Case Size:1808, 1812, 2211, 2200 (X7R only)

APPLICATIONS

- Power Supply
- Charging Station
- 5G Base Station
- Other electronic equipment for lighting or surge protection and isolation

TOP SELLING POINTS & FEATURES

- High reliability and stability
- Small size and high capacitance
- RoHS Compliant
- Safety standard approval by:
  - EN 60384-14: 2013
  - IEC 60384-14: 2013
  - UL 60384-14 (Ed 2.0)
- HALOGEN Compliant
- The terminations are composed of plated nickel and pure tin to feature the superior leaching resistance during soldering.

HOW TO ORDER

KGK	42	G	CG	3H	3R0	C	Y	-
Series KGK = X1/Y2 KGH = X2	**Size** 42 = 1808 43 = 1812 58 = 2211 55 = 22202	**Thickness** See Cap Chart	**Dielectric** CG = C0G R7 = X7R	**Impulse Voltage** 3E = 2.5kV 3H = 5.0kV 3T = 6.0kV	**Capacitance Code (in pF)** 2 Significant Digits +Number of Zeros eg. 10µF = 106 10nF = 103 47pF = 470	**Capacitance Tolerance** C = ±0.25pF D = ±0.50pF J = ±5% K = ±10%	**Packaging** See Table Below RoHS COMPLIANT	**Optimal Code** Blank = Standard Safety Capacitor 1A = Flexiterm 2A = Anti Arcing with Flexiterm 3A = Anti Arcing

PACKAGING CODES

Code	EIA (inch)	IEC (mm)	7" Embossed	13" Embossed
42	1808	4520	Y	K
43	1812	4532	V	S
58	2211	5728	V	S
55	2220	5720	V	S

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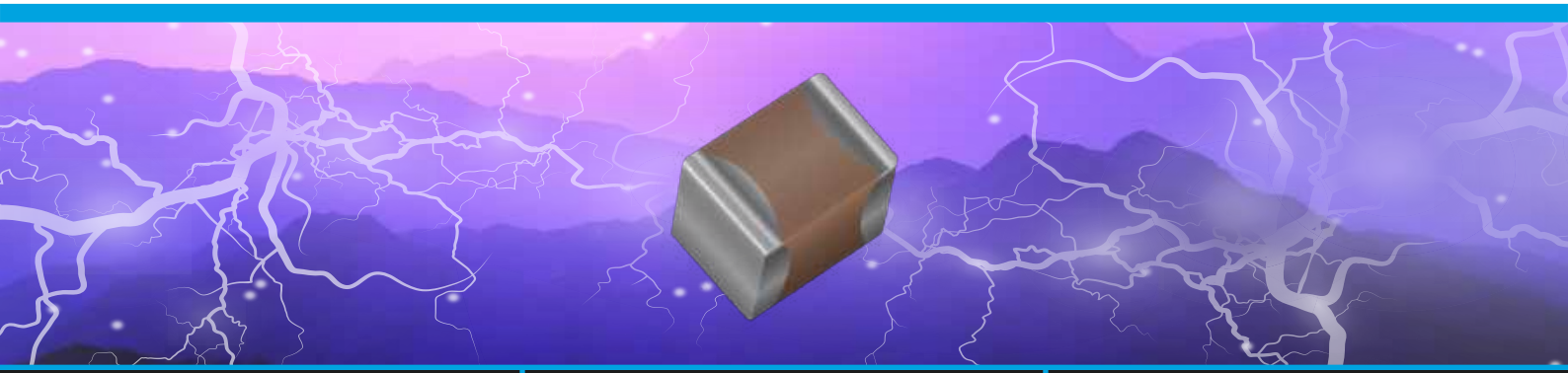
Dielectric	C0G	X7R
Size	1808, 1812, 221	1808, 1812, 221, 2220
Rated Voltage	250Vac	
Capacitance Range	X1/Y2 Class (Impulse 6KV): 4pF ~ 100pF X1/Y2 Class (Impulse 5K): 3pF ~ 720pF X2 Class: 3pF ~ 1000pF	X1/Y2 Class: 100pF ~ 4700pF X2 Class: 150pF ~ 56000pF
Capacitance Tolerance	Cap. Range: C < 10pF — Tolerance Spec.: A (±0.05pF), B ±(0.1pF), C (±0.25pF), D (±0.5pF) Cap. Range: C ≥ — Tolerance Spec.: F(±1%), G±2%), J(±5%), K(±10%), M(±20%)	M(±20%)
Tan δ	Cap. Range: C < 30pF — Q Spec.: Q ≥ 400 + 20C Cap. Range: C ≥ 30pF — Q Spec.: Q ≥ 1000	≤2.5%
Capacitance & Tan δ	Measured at: 30 ~ 70% Related Humidity	
Test Condition	For 25°C at ambient temperature	Preconditioning for Class II MLCC: Perform a heat treatmen at 150 ± 10°C for1 hour, then leave in ambient conditions for 24 ± 2 hours before measurement
	Cap. Range: Cap.≤1000pF — Frequency: 1.0±0.2Vrms, 1.0MHz±10% Cap.>1000pF — 1.0±0.2Vrms, 1.0MHz±10%	$1.0 \pm 0.2V_{rms}$, 1.0KHz ± 10%, at 25°C ambient temperature
Insulation Resistance	≥100GΩ or RxC ≥1000Ω - F (Smaller Option)	≥10GΩ or RxC ≥500Ω - F (Smaller Option)
Operating Temperature	-55°C +125°C	
Temperature Coefficient	±30ppm / °C	±15%
Termination	Cu or Ag/Ni/Sn (Lead-Free Termination)	



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