HKT

Chip Capacitor – SMD

■Applications

HKT SMD is widely used in Analog & Digital Modems, LAN/WAN Interface, Lighting Ballast Circuits, Voltage Multipliers, DC-DC Converter, Back-lighting Inverters.

Feature

- Small size
- Excellent Break down voltage, low DF
- RoHS compliant
- Suit to re-flow soldering, wave soldering, hand soldering

■Product Part Number Identification

1. HKT multilayer chip capacitor

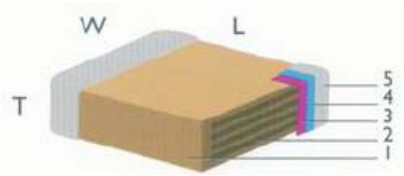
HKT	1206	X7R	102	K	202	P	T	R
Part No	a	b	c	d	e	f	g	h

a. Size Code (Inches).
b. T.C. Characteristics: NPO(COG), X7R
c. Nominal Capacitance(pF):0R6=0.6,1R6=1.6,102=10X10^2,105=10X10^5
d. Tolerance:
A=±0.1pF, B=±0.2pF, C=±0.25pF, D=±0.5pF, F=±1%
G=±2%, J=±5%, K=±10%, M=±20%, Z=+80%/-20%
e. Rated Voltage:
500=50V, 501=500V, 102=1000V, 502=5000V
f. Termination: P=Standard
g. Packaging Style: N=Bulk, T=Tape & Reel.
h. Pb: R=RoHS

■Structure and Dimension (Unit: Inches)

Structure

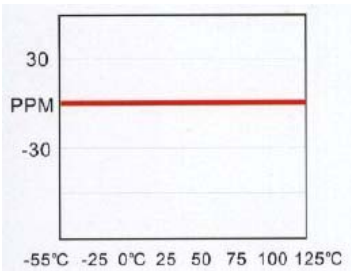
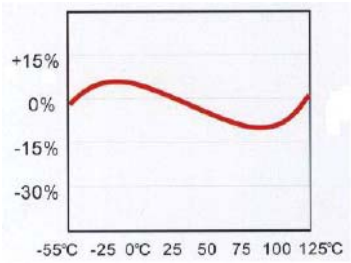
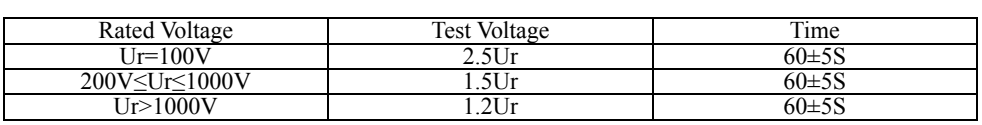
No	Name
1	Ceramic Dielectric
2	Inner Electrode
3	Silver Layer
4	Nickel Layer
5	Tin Layer



Dimensions (Unit: Inches)

Size	Length(L±0.1)	Width(W±0.1)
0603	0.06	0.03
0805	0.08	0.05
1206	0.12	0.06
1210	0.12	0.10
1808	0.18	0.08
1812	0.18	0.12
2220	0.22	0.20
2225	0.22	0.25

■Coefficient

Parameter	NPO (COG) Temperature Wave	X7R Temperature Wave
Operating Temperature Range	-55~+125℃	-55~+125℃
Temperature Coefficient		
Dissipation Factor	DF≤0.15%	DF≤2.50%
Aging	None	≤2.5% decade hour
Insulation Resistance	≥100GΩ	≥500ΩF OR 50 GΩ
Dielectric Strength	

Rated Voltage	Test Voltage	Time
Ur=100V	2.5Ur	60±5S
200V≤Ur≤1000V	1.5Ur	60±5S
Ur>1000V	1.2Ur	60±5S

Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

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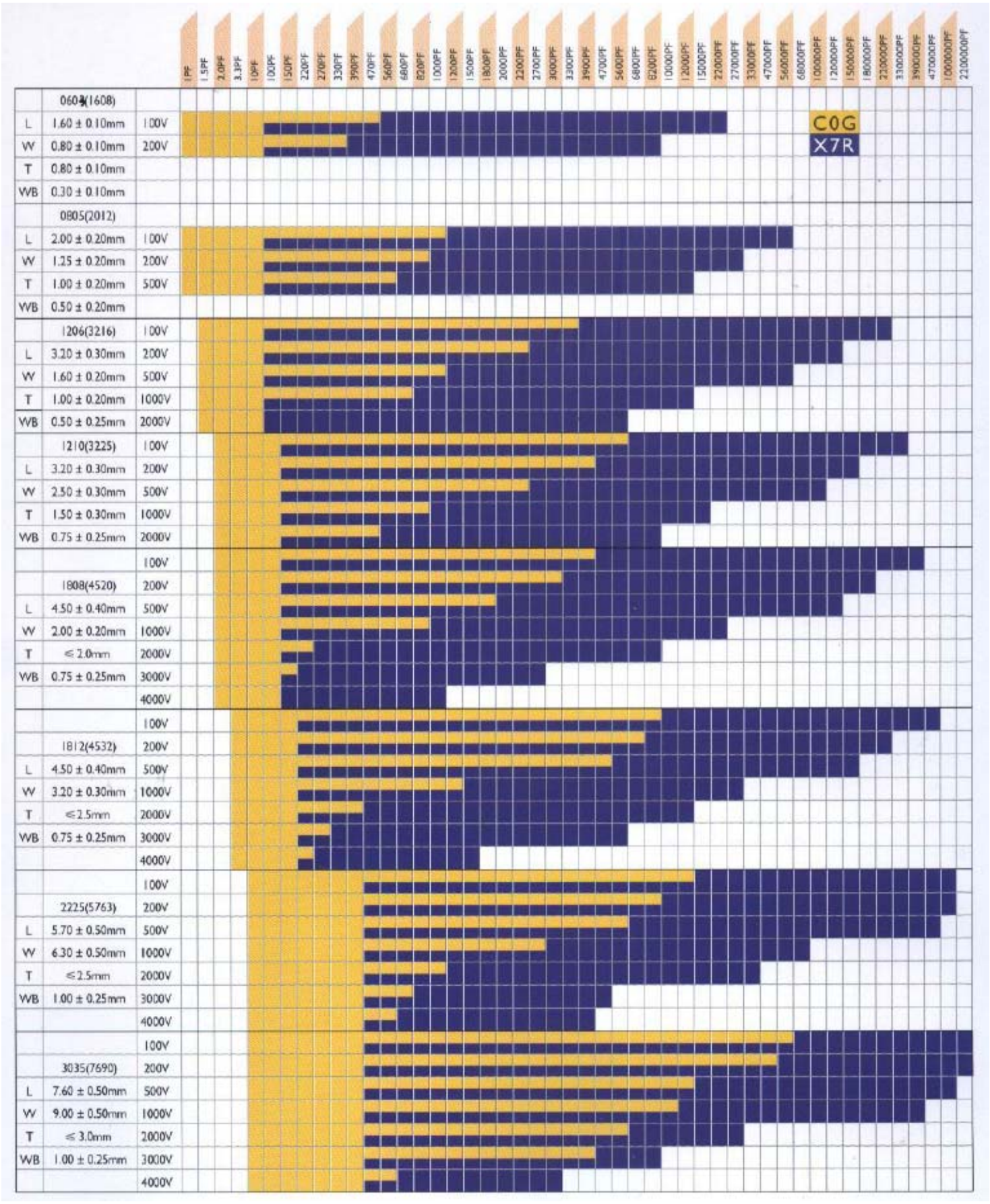
■Capacitance & Voltage



Note: Specifications are subject to change without notice.