

# **New Product Bulletin**

# Surface Mount Ceramic Chip Capacitors X5R Dielectric

KEMET is pleased to continue the expansion of high capacitance ratings in our X5R ceramic chip capacitors to include the following values in our base metal electrode devices.

# X5R/0805 - 22 µF (226) @ 6.3 Volts

# **Outline Drawing**

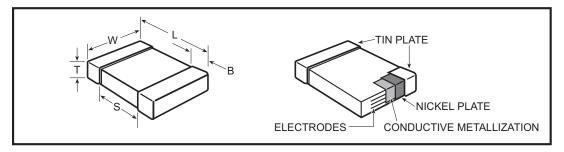


Table 1Dimensions - Millimeters (Inches)

Metric	EIA Size			Max.		
Size Code	Code	L - Length	W - Width	T - Thickness	B - Bandwidth	Separation
2012	0805	2.0 (0.79) ± 0.2 (.008)	1.25 (.049) ± 0.2 (.008)	See Table 2	0.5 (.02) ± .25 (.010)	0.75 (.030)

## Table 2 - X5R - Capacitance Value Extensions

Capacitance	KEMET Part	Capacitance	Thickness	Qty	Qty
Values (µF)	Number	Tolerance	mm	7" Reel	13" Reel
22.0	C0805C226M9PAC	±20%	1.25 ± .20	2,500	



### 查询"C0805C226M9PAC"供应商

### **Electrical Parameters**

As detailed in the KEMET Surface Mount Catalog F3102 for X5R, with following specific requirements based on room temperature (25°C) parameters:

- Operating Range: -55°C to +85°C, with no-bias capacitance shift limited to ± 15% over that range
- Insulation Resistance (IR) measured after 2 minutes at rated voltage @ 25°C: Limit is 500 megohm microfarads.
- Capacitance and Dissipation Factor (DF) measured at the following conditions. DF Limit is 10%.
  1 kHz and 1 Vrms if capacitance ≤ 10 μF
  120 Hz and 0.5 Vrms if capacitance > 10 μF

### **Soldering Process**

This 0805 component is suitable for reflow soldering only. All parts incorporate the standard KEMET barrier layer of pure nickel, with an overplate of pure tin to provide excellent solderability as well as resistance to leaching.

#### Marking

These chips are normally supplied unmarked. If required, they can be laser marked as an extra cost option. More detail on the marking format is included in our Surface Mount Catalog F3102.

*In general, the information in the KEMET Surface Mount catalog F3102 applies to these capacitors. The information in this bulletin supplements that in the catalog.*