



# Surface Mount Multilayer Ceramic Capacitors

## KPS Series Commercial Grade X7R Dielectric



### Why Buy From KEMET?

KEMET is your seamless, integrated, single source for capacitance solutions worldwide. With 95% of possible dielectric solutions, global availability, on-time delivery, plus full custom design services. One world. One source. One KEMET.

### Features & Benefits

- Higher capacitance in the same footprint
- Potential board space savings
- Single and double chip options available
- Advanced protection against thermal and mechanical stress
- Provides up to 10 mm of board flex capability
- Reduces audible, microphonic noise
- Extremely low ESR and ESL
- Pb-free and RoHS-compliant
- Capable of Pb-free reflow profiles
- Non-polar device, minimizing installation concerns
- Tantalum and electrolytic alternative
- Automotive Grade (AEC-Q200) available

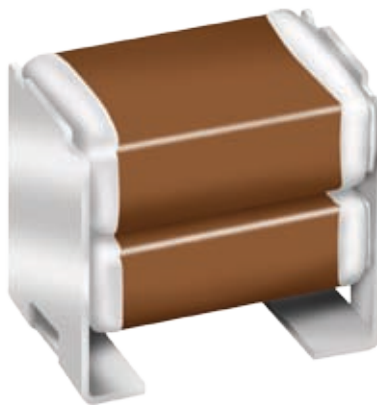
### Programs Supported

Demanding alternative energy, industrial/lighting, automotive, military/aerospace and telecommunications applications:

- Power supplies
- Smoothing circuits
- DC-to-DC converters
- Input/output filters
- Piezoelectric and mechanical noise reduction
- Improving flex performance in board flex application

### Electrical/Physical Characteristics

Case Sizes	1210, 1812, 2220
Tolerances	±10%, ±20%
Dielectric	X7R (Temperature characteristic = ±15% capacitance shift from -55° to +125°C)
Temperature Range	-55°C to +125°C
Voltage Options	10V, 16V, 25V, 50V, 100V, 250V
Capacitance Values	0.1 $\mu$ F to 47 $\mu$ F



For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.