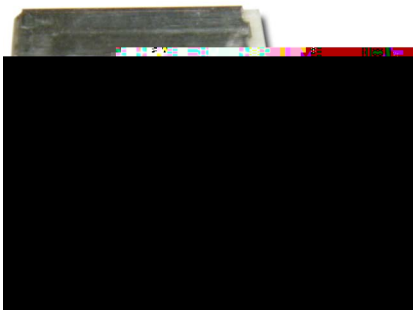
F161 Series Encapsulated Stacked, Size 2220 – 6560, 50 – 630 VDC (Automotive Grade)

Applications

KEMET's F161 Series polyester (PET) film surface mount

Council's AEC–Q200 qualification.

Benefits



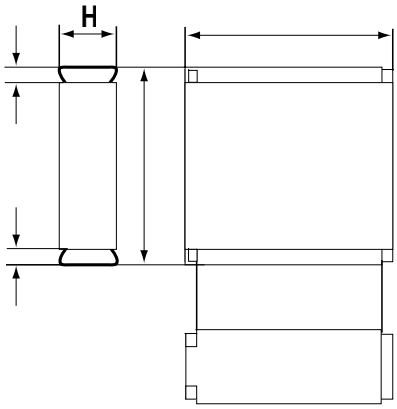
- Operating temperature range of -55˚C to +125˚C

Part Number System

				103		050	V
				two most significant digits			

Ordering Options Table

Dimensions – Millimeters



Size Code	Chip Size (EIA)							
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	
			+/-0.2		+/-0.2		+/-0.2	

Environmental Compliance

Qualification

methods and conditions are referenced in document AEC–Q200, Stress Test Qualification for Passive Components. For additional

Performance Characteristics

Capacitance Range (µF)						
	-55°C to +125°C					
	+85°C					
	The rated voltage is decreased with 1.25%/°C from +85°C					
	Measured at +20°C, Charging Time 1 Minute					
			C ≤ 0.33 µF			
	≤ 100		1,000 MΩ		400 MΩ • µF	
			1,000 MΩ		400 MΩ • µF	
	Maximum Values at +23°C					
		C ≤ 0.1 µF		1 ≤ C ≤ 10 µF		

Capacitance vs. Temperature

Dissipation Factor vs. Temperature

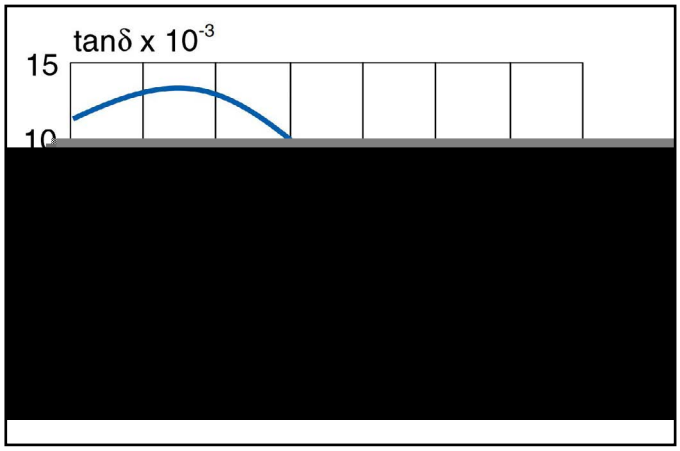


Table 1 – Ratings & Part Number Reference

(1) J = ±5%, K = ±10%, M = ±20%, other tolerances on request.

(2) Insert ordering code for lead type and packaging. See Ordering Options Table for available options.

Table 1 – Ratings & Part Number Reference cont'd

(1) J = ±5%, K = ±10%, M = ±20%, other tolerances on request.