

THERMAL CONDUCTIVITY  
(W/m·°K)

**2,0**

Electrically insulating



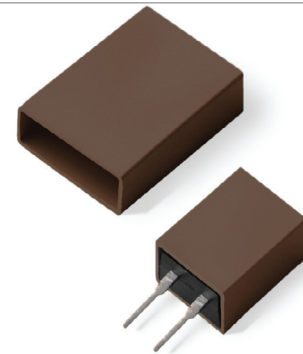
The Heatmanagement  
Company

## High-performance thermally conductive thermo-silicone caps, S-series

Kunze thermo-silicone caps, S series, are made from a mixture of thermally conductive ceramic and silicone. Due to their material's superior adaptability to surface irregularities, low total thermal transfer resistance is minimized. Their excellent thermal conductivity make them suitable for technically demanding applications. They are also excellently suited for combination with Kunze POWERCLIPS®.

### PROPERTIES

- Excellent thermal conductivity
- Minimal thermal transfer resistance
- Safe and complete electric insulation
- High flexibility
- High dielectric strength
- Quick and clean handling, superior process reliability
- UL flammability rating: UL 94 VO (FileNo: E337894)



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We disclaim all liability for accuracy of this information. Technical detail is subject to change.

Image may differ from the original product

<sup>1</sup> Voltage ramp 1000 V/s

<sup>2</sup> Step-by-step voltage increments until dielectric breakdown

PART	KU-	S30	S45	S80
<b>GENERAL PROPERTIES</b>				
Material		Silicone		
Filler		Thermally conductive ceramic		
Colour		Grey-brown		
Gauge	mm	0,3 <sup>-0 to +0,15</sup>	0,45 <sup>-0,05 to +0,1</sup>	0,80 <sup>-0 to +0,15</sup>
Density	g/cm <sup>3</sup>	2,9	2,9	2,9
Outgassing (LMW Siloxane)	ppm	Σ D3 - 10 = <10		
<b>MECHANICAL PROPERTIES</b>				
Tensile strength	MPa	3,0	3,0	3,0
Tear strength	kN/m	6,0	6,0	6,0
<b>ELECTRICAL PROPERTIES</b>				
Breakdown Voltage (Voltage ramp) <sup>1</sup>	V (AC)	6000	9000	14000
Breakdown Voltage (Voltage steps) <sup>2</sup>	V (AC)	4000	7000	12000
Dielectric Constant (1kHz)		6,3	6,3	6,3
Volume Resistivity	(Ωm)	3,5 x 10 <sup>13</sup>	3,5 x 10 <sup>13</sup>	3,5 x 10 <sup>13</sup>
<b>THERMAL PROPERTIES</b>				
Thermal conductivity	W/mK	2,0	2,0	2,0
Thermal resistance (inch <sup>2</sup> )	°C/W	0,20	0,26	0,48
Operating temperature	°C	-60 to +200	-60 to +200	-60 to +200

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