



## Professionally approved products.

Datasheet

### Silicone thermal interface material

RS Stock Numbers: xxx



GCSP-20 is a soft silicone thermal interface material

#### Features

- Single side adhesive
- Very good thermal conductivity
- Low oil bleed- long term stability
- Electrical insulation

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#### Configurations

RS Stock Number	Part number	Total thickness	Sheet size
	GCSP-20-200x200x0.5-A	0.5mm	200x200mm
	GCSP-20-200x200x1.0-A	1.0mm	200x200mm
	GCSP-20-200x200x1.5-A	1.5mm	200x200mm
	GCSP-20-200x200x2.0-A	2.0mm	200x200mm
	GCSP-20-200x200x3.0-A	3.0mm	200x200mm

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#### Applications

##### Displays, lighting protection

PDP TV, LCD CCFL and LCD LED display backlight, LED signage, projectors and new display technology.

##### Consumer and industrial electronics

Mobile telephone, communication base station, laptop, notebook, computer servers, handheld gaming devices, memory modules, CPU modules, amplifiers, batteries, and DC to DC convertors power supplies.

##### Automotive electronics

Engine management, electronic suspension, braking systems, communication and multimedia systems, comfort convenience features, vehicle lighting, vehicle controls, hybrid vehicle battery thermal management, electric vehicle thermal management.

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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Characteristic	Test Method	Value
Colour	Visual	Grey
Thickness mm	-	0.5 - 3.0
Adhesive	-	Single sided
Density g/cm <sup>3</sup>	ASTM D792	2.75
Hardness (Shore 00)	ASTM D2240	30
Application temperature °C	-	-60 - +200
<b>Electrical</b>		
Dielectric breakdown kV/mm	ASTM D419	6
Dielectric constant (@1kHz)	ASTM D150	5
Volume resistivity Ohm-m	ASTM D257	>10 <sup>12</sup>
<b>Thermal</b>		
Thermal conductivity W/m <sup>2</sup> K	ASTM D5470	2.0
Thermal impedance °C-In2/W	ASTM D5470	< 0.28

### Building the part number

Example: GCSP - 20- 200x200x0.5 - A  
          1      2  3          4  5

1. GCS series
2. Thermal conductivity
3. Dimensions (mm)
4. Thickness (mm)
5. Custom - A adhesive