



TG-V Series

Phase Change Materials

REACH Compliant

RoHS Compliant

Features

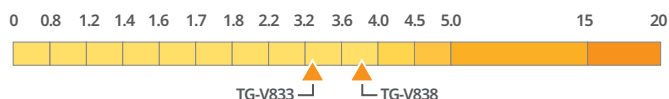
- Good flow rate over phase change temperature
- Fully filled the gaps of contact surface
- Low thermal impedance

Applications

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

Thermal Conductivity : 3.3(TG-V833) / 3.8(TG-V838) W/m·K



Properties	Unit	TG-V833	TG-V838	Tolerance	Test Method
Thermal Conductivity	W/m·K	3.3	3.8	±10%	ASTM D5470 Modified
Thickness	mm	0.13		-	ASTM D374
	inch	0.005		-	ASTM D374
Color	-	Gray		-	-
Phase Transition Temperature	°C	50		-	-
Breakdown Voltage(AC)	kV	≥1		-	ASTM D149
Density	g/cm ³	3.4	2.5	±0.3	ASTM D792
Operating Temperature	°C	-40~+125		-	-
Volume Resistivity	Ohm·m	3 × 10 ¹¹	3 × 10 ¹⁰	-	ASTM D257
Thermal Impedance @10psi	°C *in ² /W	0.621	0.546	-	ASTM D5470 Modified
Thermal Impedance @30psi	°C *in ² /W	0.544	0.487	-	ASTM D5470 Modified
Thermal Impedance @50psi	°C *in ² /W	0.512	0.454	-	ASTM D5470 Modified
Dielectric Constant @1MHz	-	13.3		-	ASTM D150

※Die-cut for different shapes

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