TG-V Series

Thermal Phase Change Materials

REACH Compliant | RoHS Compliant

Features

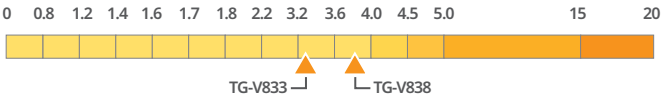
- Good flow rate over phase change temperature
- Fully filled the gaps of contact surface
- Low thermal impedance

Application:

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/mK



Properties	Unit	TG-V833	TG-V838	Tolerance	Test Method
Thermal Conductivity	W/m•K	3.3	3.8	±10%	ASTM D5470 Modified
Thickness	mm	0.13/0.2		-	ASTM D374
	inch	0.005/0.008		-	ASTM D374
Color	-	Gray		-	-
Phase Transition Temperature	° C	50		-	-
Breakdown Voltage(AC)	KV	≥1		-	ASTM D149
Density	g/cm³	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 *in²/W	0.621	0.546	-	ASTM D5470 Modified
Thermal Impedance @30psi	°C *in²/W	0.544	0.487	-	ASTM D5470 Modified
Thermal Impedance @50psi	°C *in²/W	0.512	0.454	-	ASTM D5470 Modified
Dielectric Constant @1KHz	-	13.3		-	ASTM D150

※Die-cut for different shapes

T-Global Technology (Europe & North America) Ltd.

Version19
20230721

Units 1-2 Cosford Business Park, Central Park, Lutterworth, Leicestershire, LE17 4QU, United Kingdom

T +44 (0)1455 553 510 **E** sales@tglobaltechnology.com **W** www.tglobaltechnology.com