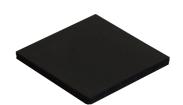
"Graphite-PAD" high thermal conductivity in z-direction

EYGT Type:

Graphite-PAD is a thermal interface material (TIM) that compatibly obtained excellent thermal conductivity in thickness direction (Z-axis direction) and high flexibility (deformable with a low load). The properties are greater than that of existing TIMs. The product is created by filling PGS Graphite Sheet into silicon resin.



Features

- High thermal conductivity: 13 W/m · K
- Excellent compressibility: 50 % (t=2 mm, Pressure 300 kPa)
- Thermal resistance: fit into uneven parts and provide excellent thermal resistance with a low load
- High reliability: correspond to -40 to 150 °C and maintains long-term reliability
- Thickness range: 0.5/1.0/1.5/2.0/2.5/3.0 mm
- RoHS compliant

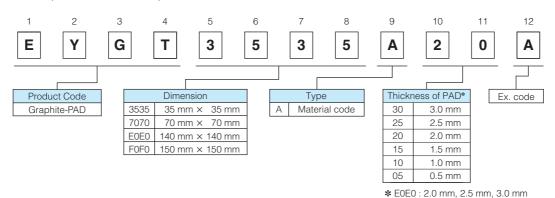
Recommended applications

Cooling of heat generating components, such as electronic devices, semiconductor memory device, etc.

- General-purpose inverter, medical equipment, and DSC
- Car-mounted camera, motor control unit, automotive lighting (LED), car navigation, luminous source of laser HUD
- Base station, IGBT module

Explanation of Part Numbers

Graphite-PAD (EYGT********)



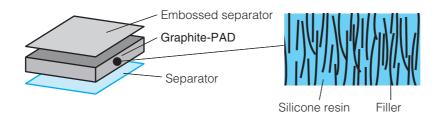
** Please confirm other condition separately.

F0F0: 0.5 mm, 1.0 mm, 1.5 mm

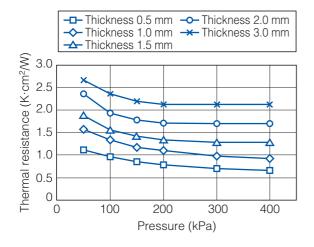
Typical characteristics										
Items	Test equipment/method	Condition	Data							
Thickness (mm)			0.5	1.0	1.5	2.0	2.5	3.0		
Thermal resistance (K·cm²/W)	TIM Tester	100 kPa	0.96	1.34	1.56	1.93	2.10	2.36		
Compressibility (%)	TIM Tester	100 kPa (50 °C)	5.78	10.29	17.46	17.8	17.6	17.9		
Thermal conductivity of Graphite-PAD with a unit (W/m·K) (including contact resistance)	TIM Tester	100 kPa	5.08	7.02	7.80	8.60	9.66	10.10		
Thermal conductivity of the Graphite-PAD (W/m·K)	(ASTM D5470)	50 kPa	13							
Hardness	(ASTM D2240)	TYPE E	25							
Adhesive			Adhesive on both faces							
Volume resistivity (Ω·cm)	(ASTM D257)		4×10 ⁵							
Operating temperature range (°C)			-40 to 150							
Siloxane		Σ (D4-D10)	≤ 70 ppm							

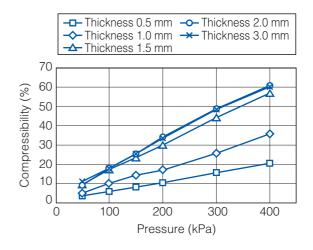
Typical values, not guaranteed

Structure



Thermal resistance and Compressibility







Panasonic "Graphite-PAD" high thermal conductivity in z-direction

Composition example									
\$	Structure	Embossed separator Graphite-PAD Separator							
Operating	erating temperature range -40 °C			to 150 °C					
Standard dimension		35 × 35 mm	70 × 70 mm	NEW 140 × 140 mm	NEW 150 × 150 mm				
0.5 mm	Standard Part No.	EYGT3535A05A	EYGT7070A05A	_	EYGTF0F0A05A				
	Thickness	0.5 mm	0.5 mm	-	0.5 mm				
1.0 mm	Standard Part No.	EYGT3535A10A	EYGT7070A10A	-	EYGTF0F0A10A				
	Thickness	1.0 mm	1.0 mm	-	1.0 mm				
1.5 mm	Standard Part No.	EYGT3535A15A	EYGT7070A15A	-	EYGTF0F0A15A				
	Thickness	1.5 mm	1.5 mm	-	1.5 mm				
2.0 mm	Standard Part No.	EYGT3535A20A	EYGT7070A20A	EYGTE0E0A20A	_				
	Thickness	2.0 mm	2.0 mm	2.0 mm	_				
2.5 mm	Standard Part No.	EYGT3535A25A	EYGT7070A25A	EYGTE0E0A25A	-				
	Thickness	2.5 mm	2.5 mm	2.5 mm	_				
3.0 mm	Standard Part No.	EYGT3535A30A	EYGT7070A30A	EYGTE0E0A30A	_				
	Thickness	3.0 mm	3.0 mm	3.0 mm	_				

Above listed Part No. are examples for evaluation and selection, not for mass production. Customized service available for mass production spec...

^{**} Contact us for custom-made samples.

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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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