

Panasonic introduces Soft-PGS, a thermal management solution for extremely thin spaces

200µm thickness guarantees thermal stability up to 400°C with thermal conductivity up to 400W/mK

Munich, December 2016: Panasonic Automotive & Industrial Systems Europe has launched a highly-compressible Thermal Interface Material (TIM) which is used to reduce contact thermal resistance between rough surfaces in extremely thin spaces. Soft-PGS enhances the thermal coupling between heat producing devices (heat sources) and heat dissipation devices (the heat sinks).

Thermal Interface Material (TIM) is a key component in the majority of power electronic systems. Heat generated by semiconductors has to be transferred to a heat sink and ultimately dissipated. Soft-PGS is a 200µm thick graphite sheet designed for use as a thermal interface material for IGBT modules. As Soft-PGS can be compressed by 40% it is an excellent method for dramatically reducing thermal resistance between a heat sink and an IGBT module. The 200µm thick Soft-PGS sheet is easy to install, and has far lower labour and installation costs than thermal grease or phase change material. Soft-PGS guarantees a thermo stability of up to 400°C and high reliability against intense heat cycles (-55°C to +150°C). Its thermal conductivity is guaranteed at 400W/mK for X-Y direction and at 30W/mK in Z direction. Panasonic offers a wide range of standard sheets for different IGBT modules from various suppliers.

Comments Simone Saile, Product Manager, Thermal Solutions & Ceramic Devices at Panasonic: "As the volume of the heat sink reduces and local power densities increase, there are greater demands on the thermal interface connecting power electronic components to the heat sink. A paste-like TIM-layer is never of homogenous thickness; also, most paste-like thermal solutions degrade over time. Compared to thermal grease and PCM, Soft-PGS fits uneven surfaces far better as well as offering superior workability, reliability and thermo stability."

For further product information, please visit:

<https://eu.industrial.panasonic.com/products/circuit-thermal-protection/thermal-protection/pyrolytic-graphite-sheet-pgs/series/soft-pgscompressible-type/AYA0005?reset=1>

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Panasonic Automotive & Industrial Systems Europe (PAISEU) is a company that provides unparalleled expertise to leading car manufacturers, industrial customers and OEMs. It researches, develops, manufactures and supplies key electronic components, devices and modules up to complete solutions across a broad range of industries; and provides production equipment which builds the manufacturing lines of global corporations. Globally, Panasonic's Automotive & Industrial Systems is responsible for over one third of Panasonic's overall revenue.