

PTM7950-SPS

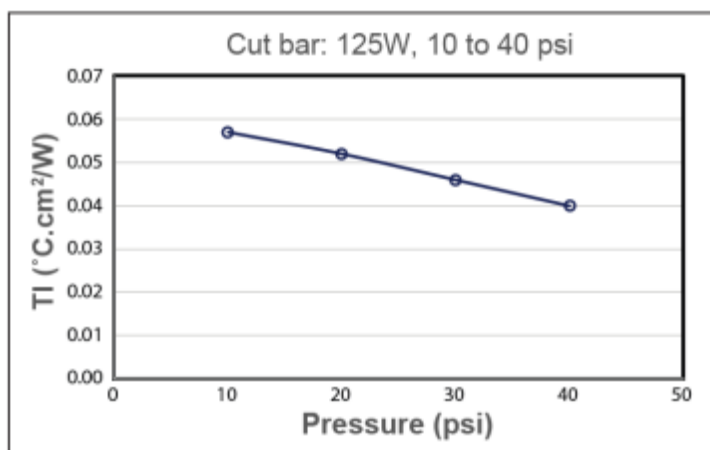
High Thermal Conductivity

Phase Change Material

Honeywell's PTM7950-SPS is designed to minimize thermal resistance at interfaces, maintain excellent performance through reliability testing, and provide scalable application at a competitive cost. Based on a novel polymer system, this material exhibits excellent interface wettability during typical operating temperature ranges, resulting in extremely low surface contact resistance.

A proprietary material provides superior reliability (pass 150oC baking 1000hrs, Temperature Cycling-B 1000cycles) and maintains low thermal impedance (<0.04 cm².oC/W with no shim), making the PTM7950-SPS desirable for high performance integrated circuit devices.

PTM7950-SPS Thermal Impedance (TI) vs. Pressure



Honeywell TIMs

Serve Multiple Applications



Automotive & Power



IT/Enterprise



Telecomm



Consumer Electronics



High-Brightness LED

PTM7950-SPS Technical Information

Physical Properties	Unit	Test Method	PTM7950-SPS
Thermal Conductivity	W/m.K	ASTM D5470	8.5
Thermal Impedance @ no shim	Cm ² . °C/W	ASTM D5470 Modified	0.04
Specific Gravity	g/cm ³	ASTM D792	2.5
Viscosity	Pa.s @10rpm, 25°C	Rheometer HON	100
Volume Resistivity	Ohm.cm	ASTM D257-700	2.1x10 ¹⁴

*Typical property data values should not be used as specifications

STORAGE CONDITION

19-24°C, <65%RH

THERMAL IMPEDANCE POST RELIABILITY (ASTM E1461)

End of Line	0.04°C.cm ² /W
Bake 150°C, 1000hrs	0.04°C.cm ² /W
Double 85, 1000hrs	0.04°C.cm ² /W
Temperature Cycling B (-55°C to +125°C, 1000 cycles)	0.045°C.cm ² /W

More Honeywell TIMs

PTM6000HV is part of Honeywell's TIM Solutions family of phase change materials. Whatever the thermal challenge, we offer a TIM product that provides just the right characteristics for your application. Find out more about:

PTM7000 Series	PTM6000 Series
PTM5000 Series	PCM45F Series
HT Series	LTM Series

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Honeywell Electronic Materials

USA: 1-509-252-2102

Mainland China: 400-840-2233

Germany: 49-5137-999-9199

Japan: 81-3-6730-7092

Korea: 82-2-3483-5076

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DS.0318Rev2

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