

Products / Interface Materials / Pads

Pads

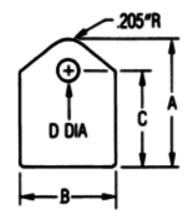
In-Sil-8 RoHS Compliant! T-gardTM 500 RoHS Compliant! Thermalsil[™]IIIRoHS Compliant!

Thermal interface pads are thicker than double-sided tapes, but can be provided without adhesive if removal of the pad may be necessary. Pads can also be either electrically conductive or isolating. Performance of the interface pad is dependent on maintenance of correct, constant mounting pressure.

In-Sil-8

Standard Pads

When you need thermal conductance and electrical isolation in one package, In-Sil-8 Pads offer you the best of both. These silicone-based insulators come with thermally conductive fillers to isolate up to 6000 volts AC. In-Sil-8 pads withstand the rigors of assembly, harsh environments, and aging under continuous use. You'll save time with these cost-effective pads too: installation is 4 times faster than mica and grease, and they won't contaminate solder baths. Order In-Sil-8 Pads with or without pressure-sensitive adhesive, and in standard or custom shapes.



Ordering Information

In-Sil-8 pads have 12 digit ordering numbers. The 1st - 4th digits are listed in this chart, the 5th & 6th digits indicate standard configurations, and the last 6 digits are F00000. The 5th and 6th digit ordering codes along with the part dimensions are listed in the code column on the standard pads page.

Part Numbers (With adhesive factory applied to one side)	1886 (1896)	1887 (1897)	1888 (1898)	1889 (1899)
Color	Grey	Rust	Grey	Grey
Thickness (inch)	0.006	0.009	0.007	0.009
Thickness (mm)	0.15	0.23	0.18	0.23
Thermal Res. (°C/W) TO-3 TO-220 TO-218	0.40 1.40 0.93	0.21 0.63 0.49	0.33 1.25 0.77	0.50 1.50 1.16
Breakdown Voltage	6000	5000	4000	5000
Dielectric Constant	5.5	4.5	5.5	5.5

T-gardTM 500 T-gardTM 500 is the recommended replacement for A-Dux

T-gardTM500 is a medium thermal performance insulator pad consisting of a ceramic filled high temperature silicone rubber coated on electrical grade fiberglass. T-gardTM 500 is designed for applications that require additional thickness to prevent electrical shorts from stamped aluminum heatsinks used in switching mode power supplies (SMPS) and debris from aluminum castings used in automotive motor controls. T-gardTM 500 is used in applications that require interface of 2.5°C/watt or higher on a TO-220 mounted @ 50 psi pressure.

Electrical Properties

Properties	Test Method	Metric Values	Imperial Values
Dielectric with stand voltage	ASTM D149	4,500 volts AC	4,500 volts AC
Dielectric Breakdown voltage	ASTM D149	>6,000 volts AC	>6,000 volts AC
Volume Resistivity	ASTM D257	>1012 ohm-cm	>1012 ohm-in
Dielectric Constant @ 1 MHz	ASTM D257	3.3	3.3
Electrical RTI Temperature rating	UL 746D	150°C	302°F

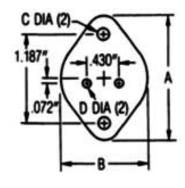
Total Thermal Resistance

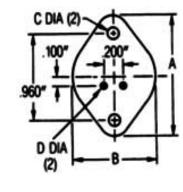
	Pressure, psi (kPa)	Units	10 (69)	25 (172)	50 (345)	100 (689)	200 (1379)	400 (2758)
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Modified ASTM D5470	°C- in2/ watt	0.6	0.55	0.45	0.40	0.35	0.35
Modified ASTM D5470	°C- cm2/ watt	3.9	3.2	2.9	2.6	2.3	2.3
ТО-220	°C/ watt	2.9	2.6	2.4	2.2	2.0	2.0

Mechanical Properties

Test Method	Metric Values	Imperial Values
	0.23 mm	0.009 inch
ASTM D2240	85 Shore A	85 Shore A
ASTM D412	1.3 kpsi	9 mPa
ASTM D412	20%	20%
ASTM D412	5%	5%
UL 746D	150°C	302°F
	Dark Pink	Dark Pink
UL 94	V-0	V-0
	Method ASTM D2240 ASTM D412 ASTM D412 ASTM D412 UL 746D	MethodValues0.23 mmASTM D224085 Shore AASTM D4121.3 kpsiASTM D41220%ASTM D4125%UL 746D150°CDark Pink





Codes	"A" Dim	"B" Dim	"C" Dim	"D" Dim
23	1.593	1.100	.156	.062
05	1.650	1.140	.140	.093
02	1.780	1.250	.140	.093
04	1.650	1.140	.122	.062
24	1.700	1.187	.156	.062
07	1.780	1.250	.165	.094

Codes	"A" Dim	"B" Dim	"C" Dim	"D" Dim
11	1.312	.762	.140	.062
30	1.250	.700	.140	.062

For TIP Packages	For TO-220, TO-218 & TO-247

		AA -			
Codes DO-4 22 20 20 DO-5 21 25 25	"A" Dim .625 .510 .800 1.000	"B" Dim .200 .200 .260 .260			
8th position the shape	n of the and hole ordering vo pads s on orderi ds n-Sil-8 Pa	part numb pattern of a heat sin should be u ng codes	the pad. k which mounts a semic	pattern of th	e ordering code in the e heat sink will determine both sides, the ordering

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