

A/N Thermal Management Device

Features

- A/N substrate material
- Multiple sizes and thicknesses
- RoHS PtAg or Solder coated PtAg sides top and bottom easy attachment

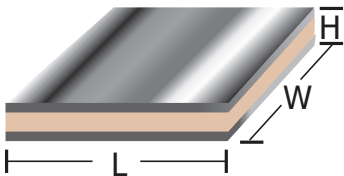


Part Number	Length	Width	Height Option 'D'	Height Option 'G'	Height Option 'T'
0505	0.050"	0.050"	0.020" Max	0.035" Max	N/A
0805	0.080"	0.050"	0.020" Max	0.035" Max	N/A
1005	0.100"	0.050"	0.020" Max	0.035" Max	N/A
1206	0.126"	0.063"	0.020" Max	0.035" Max	N/A
2010	0.197"	0.098"	0.020" Max	0.035" Max	0.050" Max
2512	0.250"	0.120"	0.020" Max	0.035" Max	0.050" Max
2525	0.250"	0.250"	N/A	0.035" Max	0.050" Max
3725	0.375"	0.250"	N/A	0.035" Max	0.050" Max

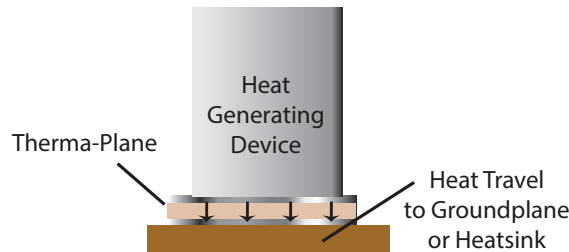
Choose the height option that best suits your thermal conductivity needs (see chart above) and build your Part Number below. **Additional options available Please contact factory.**

For detailed dimensional information, outline drawings are available from factory.

Configuration



Application Example



Termination Materials

- ✓ -3 PtAg (platinum silver) for epoxy or solder attachment
- C Solder coated PtAg for solder attachment
- ✓ -P Gold over PtAu for bonding

Ordering Information

Example: 1206 Size Therma-Plane™ on 0.025" substrate with PtAg on both sides

<p>Substrate Thickness D - 0.015"¹ G - 0.025" T - 0.040"²</p> <p>Termination Material -3 - PtAg -7 - Gold over PtAu -C - PtAg with Solder</p>	<p>P G 3</p> <p>1206 DS</p> <p>Case Size 0505 1206 2525 0805 2010 3725 1005 2512</p>	<p>OS - Metallization on one side DS - Metallization on both sides</p>
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¹ 0.015" Substrate available in sizes 2512 and smaller
² 0.040" Substrate available in sizes 2010 and larger

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Capacitance (pF)^{1◇}

Case	Length	Width	0.015" Height	0.025" Height	0.040" Height
0505	0.050"	0.050"	0.33	0.20	N/A
0805	0.080"	0.050"	0.53	0.32	N/A
1005	0.100"	0.050"	0.67	0.40	N/A
1206	0.126"	0.063"	1.06	0.64	N/A
2010	0.197"	0.098"	2.57	1.54	0.97
2512	0.250"	0.120"	4.00	2.40	1.50
2525	0.250"	0.250"	N/A	5.00	3.13
3725	0.375"	0.250"	N/A	7.50	4.69

¹ Based on a simple parallel plate model

Thermal Resistance (°C/W)^{2◇}

Case	Length	Width	0.015" Height	0.025" Height	0.040" Height
0505	0.050"	0.050"	1.39	2.32	N/A
0805	0.080"	0.050"	0.87	1.45	N/A
1005	0.100"	0.050"	0.70	1.16	N/A
1206	0.126"	0.063"	0.45	0.75	N/A
2010	0.197"	0.098"	0.17	0.29	0.46
2512	0.250"	0.120"	0.12	0.19	0.31
2525	0.250"	0.250"	N/A	0.09	0.15
3725	0.375"	0.250"	N/A	0.06	0.10

² Based on nominal thermal conductivity of AIN

Normalized Thermal Conductivity (W/°C)^{3◇}

Case	Length	Width	0.015" Height	0.025" Height	0.040" Height
0505	0.050"	0.050"	0.72	0.43	N/A
0805	0.080"	0.050"	1.15	0.69	N/A
1005	0.100"	0.050"	1.43	0.86	N/A
1206	0.126"	0.063"	2.22	1.33	N/A
2010	0.197"	0.098"	5.88	3.45	2.17
2512	0.250"	0.120"	8.33	5.26	3.23
2525	0.250"	0.250"	N/A	11.10	6.67
3725	0.375"	0.250"	N/A	16.67	10.00

³ Based on thermal resistance in above chart

◇ These values are approximate

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