



**MOLD-TO-POSITION PRODUCT**  
 Minimums or set-up charges may apply. Call Samtec.

# PIN GRID ARRAY ADAPTORS MPAT, MVAT, MHAT, MSAT

**Mates with:**  
 MPAS, MVAS, MLAS, MHAS, MSAS

**Features:**

- A choice of many different terminal styles and insulators makes it easy to find the adaptor for your application.
- Unique MHAT insulator that allows any array from 1 by 1 to 20 by 20.
- Irregular shapes are also available upon request.

**Specifications:**  
 MPAT, MVAT



**Insulator Material:** Black Glass Filled Polyester  
**Flammability Rating:** UL 94V-0  
**Insulation Resistance:** 5000 megohm @ 500 VDC  
**Operating Temp Range:** -55°C to +105°C with Tin; -55°C to + 125°C with Gold.  
**Withstanding Voltage:** 1000 VRMS @ 60 Hz  
**Terminal Material:** Brass or Phosphor Bronze  
**Plating:** Au or Sn over 50µ" Ni  
**Current Rating:** 1 amp continuous @ 100 VDC per contact  
**Terminal Retention in Body:** 5 lbs against barb

**Specifications:**  
 MSAT **HI-TEMP**

Same as MPAT except:  
**Insulator Material:** Black Liquid Crystal Polymer  
**Max Processing Temp:** 230°C for 30 to 60 seconds

**Specifications:**  
 MHAT

Same as MPAT except:  
**Insulator Material:** Black High Temperature Thermoplastic  
**Operating Temp Range:** -55°C to +170°C

**Note:**  
 These Series are non-standard, non-returnable.

BODY STYLE	PIN COUNT	LEAD STYLE	PLATING OPTION	GRID SIZE & PIN OUT CODE
<b>MPAT</b> = Standard Polyester <b>MVAT</b> = Open Body Polyester <b>MSAT</b> = Hi-Temp Open Body 	<b>-XXX</b> = Total Number Of Filled Positions		<b>-G</b> = 20µ" (0,51µm) Gold  <b>-T</b> = Tin	
<b>MHAT</b> = Low Profile 				

MPAT, MVAT & MSAT ONLY		MHAT ONLY														
<b>-A or -A1</b> =Round Pin  <table border="1"> <tr><th>STYLE</th><th>X DIA</th></tr> <tr><td>-A</td><td>(0,64) .025</td></tr> <tr><td>-A1</td><td>(0,46) .018</td></tr> </table> -A Component No. = T-1R0 -A1 Component No. = T-1R5	STYLE	X DIA	-A	(0,64) .025	-A1	(0,46) .018	<b>-J</b> =Solder Shell  -J Component No. = S-1P1	<b>-R</b> =Standard Pin  -R Component No. = T-2R6	<b>-H</b> =Short Pin  -H Component No. = T-1R6							
STYLE	X DIA															
-A	(0,64) .025															
-A1	(0,46) .018															
<b>-D or -D1</b> =Wirewrap  <table border="1"> <tr><th>STYLE</th><th>A</th></tr> <tr><td>-D</td><td>(12,95) .510</td></tr> <tr><td>-D1</td><td>(7,87) .310</td></tr> </table> -D Component No. = T-1S4-1-1 -D1 Component No. = T-1S4-1-2	STYLE	A	-D	(12,95) .510	-D1	(7,87) .310	<b>-M, -N &amp; -P</b> =Extended Pin Not available with MSAT.  <table border="1"> <tr><th>LEAD STYLE</th><th>A</th></tr> <tr><td>-M</td><td>(1,52) .060</td></tr> <tr><td>-N</td><td>(4,70) .185</td></tr> <tr><td>-P</td><td>(11,05) .435</td></tr> </table> -M Component No. = T-1R14-1 -N Component No. = T-1R14-2 -P Component No. = T-1R14-3	LEAD STYLE	A	-M	(1,52) .060	-N	(4,70) .185	-P	(11,05) .435	<b>-T</b> =Extended Pin  -T Component No. = T-3R6
STYLE	A															
-D	(12,95) .510															
-D1	(7,87) .310															
LEAD STYLE	A															
-M	(1,52) .060															
-N	(4,70) .185															
-P	(11,05) .435															

Due to technical progress, all designs, specifications and components are subject to change without notice.

**WWW.SAMTEC.COM**

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 • Fax: 812-948-5047  
 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0 • Fax: +49 (0) 89 / 89460-299  
 SAMTEC SCANDINAVIA • Tel: +46-84477280 • Fax: +46-8420413  
 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 • Fax: 65 6841-1502  
 SAMTEC JAPAN • Tel: 045-475-1385 • Fax: 045-475-1340  
 SAMTEC KOREA • Tel: 82-31-717-5685 • Fax: 82-31-717-5681  
 SAMTEC SILICON VALLEY • Tel: 408-395-5900 • Fax: 408-395-1520  
 SAMTEC FRANCE • Tel: 01 60 95 06 60 • Fax: 01 60 95 06 61  
 SAMTEC ISRAEL • Tel: 972-3-7526600 • Fax: 972-3-7526690  
 SAMTEC CHINA • Tel: 86-21-61103766 • Fax: 86-21-53854047  
 SAMTEC SOUTH AFRICA • Tel: 27 11 4528112 • Fax: 27 86 6714432  
 SAMTEC UK • Tel: 01236 739292 • Fax: 01236 727113  
 SAMTEC ITALY • Tel: 39 039 6890337 • Fax: 39 039 6890315  
 SAMTEC INDIA • Tel: +91-80-3272 1612 • Fax: +91-80-4152 8187  
 SAMTEC TAIWAN • Tel: 886 02 2698-3367 • Fax: 886 02 8698-2159  
 SAMTEC ANZ • Tel: 613 9512 7747 • Fax: 613 9512 7745