



Heat Sink Pads "The Alternative To Grease" (Cont.)



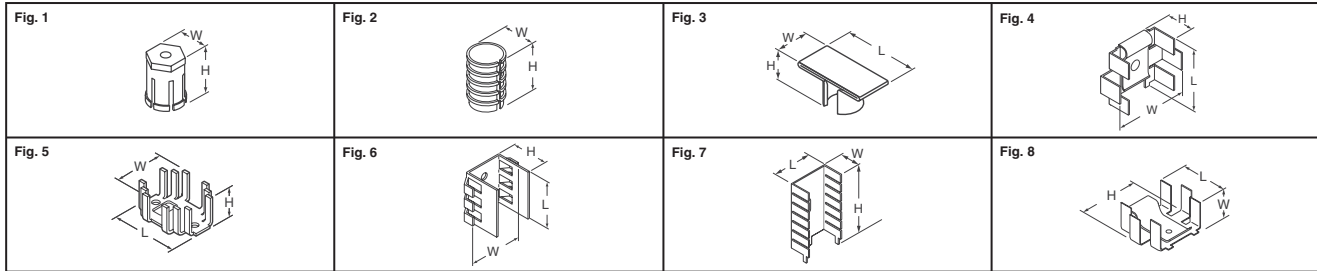
| Fig.  | Device Type | Dimensions - Inch (mm) |              |             |             |               |              |   | Digi-Key Part No. | Pricing |        |         |         | Bergquist Part No.    |
|---|-------------|------------------------|--------------|-------------|-------------|---------------|--------------|---|-------------------|---------|--------|---------|---------|-----------------------|
|   |             | A                      | B            | C           | D           | E             | F            | G |                   | 1       | 10     | 50      | 100     |                       |
| <b>"SP900" Single Side Adhesive Backed Pads (Low Mounting Pressure)</b>                         |             |                        |              |             |             |               |              |   |                   |         |        |         |         |                       |
| 1   | TO-3        | 1.65 (41.91)           | 1.14 (28.96) | .140 (3.56) | .093 (2.36) | 1.187 (30.15) | .430 (10.92) | — | BER181-ND         | .64     | 5.67   | 25.38   | 44.91   | SP900S-0.009-AC-05    |
| 3   | TO-220      | .750 (19.05)           | .500 (12.70) | .187 (4.75) | .147 (3.73) | —             | —            | — | BER182-ND         | .26     | 2.35   | 10.50   | 18.58   | SP900S-0.009-AC-54    |
|   | TO-220      | .750 (19.05)           | .500 (12.70) | .187 (4.75) | .125 (3.18) | —             | —            | — | BER183-ND         | .26     | 2.35   | 10.50   | 18.58   | SP900S-0.009-AC-58    |
| <b>"Bond Ply™ 100" Double Sided Thermal Tape</b>  |             |                        |              |             |             |               |              |   |                   |         |        |         |         |                       |
| Double Sided Adhesive Thermal Pad, .005" (.127) Thick, 11" x 12" (27.94 x 30.48cm) Square Sheet |             |                        |              |             |             |               |              |   | BER246-ND         | 30.35   | 279.26 | 1214.18 | 2064.10 | BP100-0.005-00-1112   |
| Double Sided Adhesive Thermal Pad, .008" (.203) Thick, 10" (25.4cm) Square Sheet                |             |                        |              |             |             |               |              |   | BER159-ND         | 24.63   | 226.61 | 985.26  | 1674.94 | BP100-0.008-00-1010   |
| Double Sided Adhesive Thermal Pad, .011" (.279) Thick, 10" (25.4cm) Square Sheet                |             |                        |              |             |             |               |              |   | BER160-ND         | 20.98   | 197.50 | 925.78  | 1728.13 | BP100-0.011-00-1010   |
| <b>"Gap Pad™ 1500" Thermal Gap Filling Material</b>   |             |                        |              |             |             |               |              |   |                   |         |        |         |         |                       |
| High Thermally Conductive Pad, .020" (.508) Thick, 4" (10.16cm) Square Sheet                    |             |                        |              |             |             |               |              |   | BER161-ND         | 8.75    | 78.10  | 350.11  | 619.43  | GP1500-0.020-02-0404  |
| High Thermally Conductive Pad, .040" (1.02) Thick, 4" (10.16cm) Square Sheet                    |             |                        |              |             |             |               |              |   | BER162-ND         | 9.26    | 85.17  | 370.31  | 629.53  | GP1500-0.040-02-0404  |
| High Thermally Conductive Pad, .060" (1.52) Thick, 4" (10.16cm) Square Sheet                    |             |                        |              |             |             |               |              |   | BER163-ND         | 10.60   | 97.56  | 424.18  | 721.10  | GP1500-0.060-02-0404  |
| High Thermally Conductive Pad, .080" (2.03) Thick, 4" (10.16cm) Square Sheet                    |             |                        |              |             |             |               |              |   | BER164-ND         | 12.51   | 115.11 | 500.48  | 850.82  | GP1500-0.080-02-0404  |
| High Thermally Conductive Pad, .125" (3.18) Thick, 4" (10.16cm) Square Sheet                    |             |                        |              |             |             |               |              |   | BER165-ND         | 22.78   | 209.57 | 911.19  | 1549.03 | GP1500-0.080-02-0404  |
| High Thermally Conductive Pad, .040" (1.02) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER227-ND         | 58.13   | 547.08 | 2564.42 | 4786.91 | GP1500-0.040-02-0816  |
| High Thermally Conductive Pad, .060" (1.52) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER228-ND         | 51.51   | 484.77 | 2272.37 | 4241.76 | GP1500-0.060-02-0816  |
| High Thermally Conductive Pad, .080" (2.03) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER229-ND         | 60.57   | 570.06 | 2672.14 | 4988.00 | GP1500-0.080-02-0816  |
| High Thermally Conductive Pad, .125" (3.18) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER230-ND         | 103.97  | 978.52 | 4586.83 | 8562.08 | GP1500-0.125-02-0816  |
| <b>"Gap Pad™ 1500R" Thermal Gap Filling Material</b>  |             |                        |              |             |             |               |              |   |                   |         |        |         |         |                       |
| High Thermally Conductive Pad, .010" (.254) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER231-ND         | 31.82   | 299.48 | 1403.82 | 2620.47 | GP1500R-0.010-02-0816 |
| High Thermally Conductive Pad, .015" (.381) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER232-ND         | 38.97   | 366.81 | 1719.43 | 3209.60 | GP1500R-0.015-02-0816 |
| High Thermally Conductive Pad, .020" (.508) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER233-ND         | 42.83   | 403.08 | 1889.44 | 3526.95 | GP1500R-0.020-02-0816 |
| <b>"Gap Pad™ VO Ultra Soft" Thermal Gap Filling Material</b>                                    |             |                        |              |             |             |               |              |   |                   |         |        |         |         |                       |
| High Thermally Conductive Pad, .020" (.508) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER222-ND         | 35.37   | 332.88 | 1560.36 | 2912.68 | GPVOUS-0.020-00-0816  |
| High Thermally Conductive Pad, .040" (1.02) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER223-ND         | 46.74   | 439.89 | 2061.97 | 3849.01 | GPVOUS-0.040-00-0816  |
| High Thermally Conductive Pad, .060" (1.52) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER224-ND         | 53.90   | 507.22 | 2377.58 | 4438.14 | GPVOUS-0.060-00-0816  |
| High Thermally Conductive Pad, .080" (2.03) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER225-ND         | 63.44   | 596.99 | 2798.39 | 5223.65 | GPVOUS-0.080-00-0816  |
| High Thermally Conductive Pad, .125" (3.18) Thick, 8" x 16" (20.32 x 40.64cm) Sheet             |             |                        |              |             |             |               |              |   | BER226-ND         | 105.88  | 996.48 | 4670.99 | 8719.18 | GPVOUS-0.125-00-0816  |

\* Made of SP400 material

**CTS** Heat Sinks

CTS Electronic Components (California) Inc. has helped pioneer the development of semiconductor heat sinks since 1954. Primarily used by all levels of OEM's engaged in the manufacture of commercial and military equipment, CTS maintains stock and support from prototype through production. CTS has prided themselves for their flexible manufacturing, quality products and on-time delivery. Clip-On versions have a built-in clip for

attaching a device to a heat sink without additional hardware, positive locks prevent the semiconductor from sliding out. TO-220 versions will also fit TO-202, TO-218 and TO-126 packages. Wattage values listed are at still air conduction only. Moving air will increase this value.



| Fig. | Description  | Dimensions - Inch (mm)<br>L x W x H        | Thermal Res. C/Watt | Digi-Key Part No. | Price Each |       |       | CTS Part No.    |
|------|--|--|---------------------|-------------------|------------|-------|-------|-----------------|
|      |  |  |                     |                   | 1          | 10    | 100   |                 |
| 1    | TO-8, Press-On Mount, w/out Hardware, Black, 1W        | — x .380 x .310 (— x 9.65 x 7.87)          | 73.17               | 294-1118-ND       | 11.41      | 10.27 | 9.89  | TXB2-032-037B   |
|      | TO-18, Press-On Mount, w/Hardware Black, 5W            | — x .220 x .340 (— x 5.59 x 8.64)          | 150.26              | 294-1123-ND       | 39.69      | 30.88 | 26.47 | TXP1808B        |
|      | TO-18, Press-On Mount, w/Hardware, Nickel, 6W          | — x .220 x .280 (— x 5.59 x 7.11)          | 150.26              | 294-1141-ND       | 13.10      | 11.79 | 11.35 | TXB2P-019-028ND |
| 2    | TO-5, Press-On Mount, Black, 2W                        | — x .440 x .500 (— x 11.18 x 12.70)        | 35.00               | 294-1105-ND       | 3.73       | 3.36  | 2.61  | 7-120-BA        |
| 3    | TO-5, Press-On Mount, Black, 1W                        | .700 x .325 x .250 (17.78 x 8.26 x 6.35)   | 58.00               | 294-1106-ND       | 3.25       | 2.72  | 1.91  | 7-175-BA        |
| 4    | TO-220, Vertical/Horizontal Clip-on Mount, Black, 1.5W | .810 x 1.00 x .310 (20.57 x 25.40 x 7.87)  | 140.50              | 294-1115-ND       | 2.09       | 1.74  | 1.22  | PSC2-2CB        |
| 5    | TO-220, Power Horizontal Mount, 8W                     | 1.31 x .90 x .750 (33.27 x 22.86 x 19.05)  | 17.00               | 294-1036-ND       | 2.81       | 2.34  | 1.64  | LAE66A3CB       |
| 6    | TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2.5W  | .710 x .800 x .500 (18.03 x 20.32 x 12.70) | 30.00               | 294-1107-ND       | 1.76       | 1.47  | 1.03  | 7-361-BA        |
|      | TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2W    | .710 x .800 x .340 (18.03 x 20.32 x 8.64)  | 38.00               | 294-1108-ND       | 1.43       | 1.29  | 1.00  | 7-362-BA        |
|      | TO-220, Horizontal Mount, 3W (No Mounting Hole)        | 1.09 x .620 x 1.31 (27.69 x 15.75 x 33.27) | 30.00               | 294-1013-ND       | .74        | .58   | .44   | 7-300-000-BA    |
| 7    | TO-220, Vertical PC Mount w/Tabs, 5W                   | 1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97) | 20.00               | 294-1042-ND       | 2.19       | 1.83  | 1.28  | PB1-36CB        |
|      | TO-220, Vertical PC Mount w/Tabs, 6W                   | .880 x .250 x 1.25 (22.35 x 6.35 x 31.75)  | 25.40               | 294-1045-ND       | 2.03       | 1.59  | 1.19  | PSB2-1CB        |
| 8    | TO-220, High Efficiency, 4W                            | .710 x .500 x 1.00 (18.03 x 12.70 x 25.40) | 26.80               | 294-1039-ND       | 2.05       | 1.72  | 1.20  | PA1-1CB         |
|      | TO-220, Low Profile Clip-On, w/ Antirotation, Black    | .810 x .310 x 1.00 (20.57 x 7.87 x 25.40)  | 40.50               | 294-1049-ND       | 1.31       | 1.10  | .77   | PSC2T-2CB       |
| 9    | TO-220, Power Vertical Mount, 7W                       | 1.15 x .460 x .750 (29.21 x 11.68 x 19.05) | 14.00               | 294-1034-ND       | 4.32       | 3.89  | 3.03  | 7-340-1PP-BA    |
|      | TO-220, Power Horizontal Mount, 7W                     | 1.15 x .460 x .750 (29.21 x 11.68 x 19.05) | 14.00               | 294-1035-ND       | 4.33       | 3.90  | 3.03  | 7-340-3PP-BA    |
|      | Dual TO-220, Universal Mount, 9W                       | 1.50 x 1.15 x .460 (38.10 x 29.21 x 11.68) | 7.00                | 294-1080-ND       | 4.39       | 3.95  | 3.08  | 7-340-2PP-BA    |
| 10   | TO-220, Power Vertical Mount w/Pins, 11W               | 1.38 x .500 x 1.50 (35.05 x 6.35 x 38.10)  | 13.00               | 294-1024-ND       | 8.00       | 7.21  | 5.61  | 7-338-1PP-BA    |
|      | TO-220, Power Vertical Mount w/Pins, 11W               | 1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10) | 11.00               | 294-1029-ND       | 9.75       | 8.78  | 6.83  | 7-339-1PP-BA    |
|      | TO-220, Power Vertical Mount w/Pins, 15W               | 1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80) | 5.00                | 294-1031-ND       | 10.29      | 9.27  | 7.21  | 7-339-3PP-BA    |
|      | TO-220, Power Vertical Mount w/Pins, 17W               | 1.38 x .500 x 2.50 (35.05 x 6.35 x 63.50)  | 4.00                | 294-1027-ND       | 7.40       | 6.66  | 5.18  | 7-338-4PP-BA    |
|      | TO-220, Power Vertical Mount w/Pins, 17W               | 1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50) | 4.00                | 294-1032-ND       | 10.83      | 9.75  | 7.59  | 7-339-4PP-BA    |

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