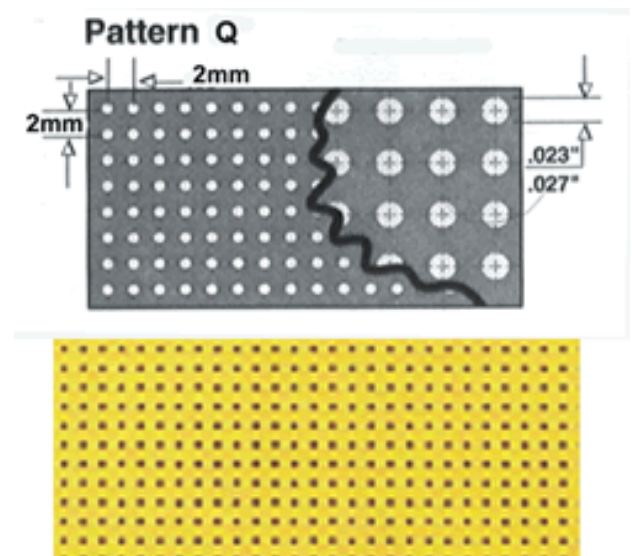


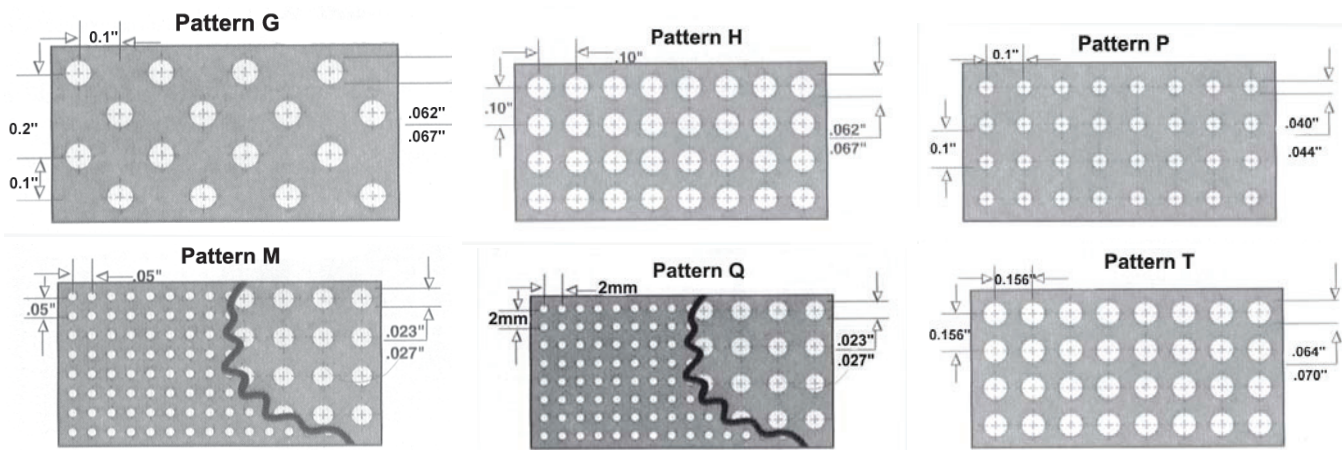
**Vectorbord® Part Number : 47Q78WE**

|                         |                                                      |
|-------------------------|------------------------------------------------------|
| Description :           | ■ 100 mm X 160 mm, FR4 Epoxy Glass, Unclad Punchbord |
| Hole { Grid } Pattern : | ■ Pattern " Q " { Hole Dia. 0.025" }                 |
| Dimension :             | ■ 100 mm x 160 mm)                                   |
| Board Thickness :       | ■ 0.037" (1.57mm) +/- 0.005"                         |
| Hole Diameter :         | ■ 0.025" (0.60mm)                                    |
| Material :              | ■ FR4 Epoxy Glass                                    |
| NEMA Grade :            | ■ FR4                                                |
| UL Flammability Class : | ■ 94V-0                                              |
| Mil - STD :             | ■ MIL - P13949 Type GF                               |



## Vectorbord®

Vectorbord® general purpose pre-punched insulating punchboard is available in standard grid patterns shown below for assembling circuit components. Standard thickness is 1/16"(.062") except as noted. Vectorbord® is available in FR4 epoxy glass, FR2 phenolic, CEM-1 epoxy glass composite and **P96 GPY Hi-Temp laminate (NEW)**. Vectorbord® listed below is **copper clad or unclad only**. For 12" x 12" unpunched panels see pattern X at end of listing. Selection of terminals and other accessories located on Page . For a complete product list see Web page.



| Pattern | Part. No.    | Width            | Length           | Thick  | Hole             | Material Description                                       |
|---------|--------------|------------------|------------------|--------|------------------|------------------------------------------------------------|
| G       | 85G42WE      | 8.50"            | 17.00"           | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| P       | 59P44-032    | 4.50"            | 6.00"            | 0.031" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 64P44WE      | 4.50"            | 6.50"            | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 64P44XXXP    | 4.50"            | 6.50"            | 0.062" | 0.042"           | FR2 Phenolic                                               |
| P       | 64P44        | 4.50"            | 6.50"            | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 84P44WE      | 4.50"            | 8.50"            | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P44C1     | 4.50"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite, 1oz. unplated copper, 1 side  |
| P       | 169P44       | 4.50"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 169P44XXXP   | 4.50"            | 17.00"           | 0.062" | 0.042"           | FR2 Phenolic                                               |
| P       | 169P44WEC1   | 4.50"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass, 1oz. unplated copper, 1 side              |
| P       | 169P44WEC2   | 4.50"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass, 1oz. unplated copper, 2 sides             |
| P       | 169P44WE     | 4.50"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P59-032   | 6.00"            | 17.00"           | 0.031" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P59-047   | 6.00"            | 17.00"           | 0.047" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P59C1     | 6.00"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite, 1oz. unplated copper, 1 side  |
| P       | 169P59XXXP   | 6.00"            | 17.00"           | 0.062" | 0.042"           | FR2 Phenolic                                               |
| P       | 169P79WE     | 8.00"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P79       | 8.00"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 169P84       | 8.50"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 169P84C1     | 8.50"            | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite, 1oz. unplated copper, 1 side  |
| P       | 169P84HT     | 8.50"            | 17.00"           | 0.062" | 0.042"           | GPY 260°C(TMA)Polyimide P96, no copper                     |
| P       | 169P84HTC2   | 8.50"            | 17.00"           | 0.062" | 0.042"           | GPY 260°C(TMA)Polyimide P96, 1oz. unplated copper, 2 sides |
| P       | 64P44HT      | 4.50"            | 6.50"            | 0.062" | 0.042"           | GPY 260°C(TMA)Polyimide P96, no copper                     |
| P       | 169P84WE     | 8.50"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| P       | 169P84WEC1   | 8.50"            | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass, 1oz. unplated copper, 1 side              |
| P       | 349P84       | 8.50"            | 35.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 169P99       | 10.00"           | 17.00"           | 0.062" | 0.042"           | CEM-1 Epoxy Glass Composite                                |
| P       | 169P99WE     | 10.00"           | 17.00"           | 0.062" | 0.042"           | FR4 Epoxy Glass                                            |
| H       | 85H48WE      | 4.80"            | 8.50"            | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| H       | 170H48WE-032 | 4.80"            | 17.00"           | 0.032" | 0.062"           | FR4 Epoxy Glass                                            |
| H       | 170H48WE     | 4.80"            | 17.00"           | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| H       | 85H85WE      | 8.50"            | 8.50"            | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| H       | 170H85WE     | 8.50"            | 17.00"           | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| H       | 155H175WE    | 16.00"           | 18.00"           | 0.062" | 0.062"           | FR4 Epoxy Glass                                            |
| M       | 126M76-032   | 4.00"            | 6.50"            | 0.037" | 0.025"           | FR4 Epoxy Glass                                            |
| M       | 336M76-032   | 4.00"            | 17.00"           | 0.037" | 0.025"           | FR4 Epoxy Glass                                            |
| M       | 336M76-032C1 | 4.00"            | 17.00"           | 0.037" | 0.025"           | FR4 Epoxy Glass, 1oz. unplated copper, 1 side              |
| Q       | 47Q78WE      | 100mm<br>(3.94") | 160mm<br>(6.30") | 0.062" | 0.6mm<br>(.025") | FR4 Epoxy Glass                                            |
| T       | 17T36WE      | 3.00"            | 6.00"            | 0.062" | 0.067"           | FR4 Epoxy Glass                                            |
| X       | 12X12WE      | 12.00"           | 12.00"           | 0.062" | None             | FR4 Epoxy Glass                                            |
| X       | 12X12WEC1    | 12.00"           | 12.00"           | 0.062" | None             | FR4 Epoxy Glass, 1oz. unplated copper, 1 side              |
| X       | 12X12C1      | 12.00"           | 12.00"           | 0.062" | None             | CEM-1 Epoxy Glass Composite, 1oz. unplated copper, 1 sides |
| X       | 12X12C2      | 12.00"           | 12.00"           | 0.062" | None             | CEM-1 Epoxy Glass Composite, 1oz. unplated copper, 2 sides |