

|                                                                     |                                         |                      |                      |                      |                      |                      |                      |                       |                       |                        |                        |                        |                        |
|---------------------------------------------------------------------|-----------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| <b>Page 10</b>                                                      | <b>TE<sub>10</sub> FREQUENCY IN GHz</b> | <b>18.0<br/>26.5</b> | <b>26.5<br/>40.0</b> | <b>33.0<br/>50.0</b> | <b>40.0<br/>60.0</b> | <b>50.0<br/>75.0</b> | <b>60.0<br/>90.0</b> | <b>75.0<br/>110.0</b> | <b>90.0<br/>140.0</b> | <b>110.0<br/>170.0</b> | <b>140.0<br/>220.0</b> | <b>170.0<br/>260.0</b> | <b>220.0<br/>325.0</b> |
| <b>AEROWAVE FLANGE INTERFACE</b>                                    |                                         | <b>42-0101</b>       | <b>28-0101</b>       | <b>22-0110</b>       | <b>19-0110</b>       | <b>15-0120</b>       | <b>12-0120</b>       | <b>10-0120</b>        | <b>08-0130</b>        | <b>06-0130</b>         | <b>05-0130</b>         | <b>04-0130</b>         | <b>03-0130</b>         |
| <b>EIA WAVEGUIDE WR- ( # # )</b>                                    |                                         | <b>42</b>            | <b>28</b>            | <b>22</b>            | <b>19</b>            | <b>15</b>            | <b>12</b>            | <b>10</b>             | <b>08</b>             | <b>06</b>              | <b>05</b>              | <b>04</b>              | <b>03</b>              |
| <b>TERMINATIONS &amp; LOADS</b>                                     |                                         |                      |                      |                      |                      |                      |                      |                       |                       |                        |                        |                        |                        |
| <b>(##)-2000</b> TERMINATIONS \$<br>W/G AIR COOLED                  |                                         | 155                  | 130                  | 140                  | 150                  | 135                  | 145                  | 155                   | 220                   | 270                    | 320                    | 420                    | 520                    |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 1.4                  | 1.1                  | 1.0                  | 0.8                  | 0.6                  | 0.5                  | 0.4                   | 0.3                   | 0.1                    | 0.08                   | 0.06                   | 0.04                   |
| TYPICAL VSWR -----                                                  |                                         | 1.05:1               | 1.05:1               | 1.05:1               | 1.05:1               | 1.05:1               | 1.05:1               | 1.05:1                | 1.08:1                | 1.10:1                 | 1.12:1                 | 1.14:1                 | 1.16:1                 |
| <b>(##)-2010</b> TEST BENCH LOADS \$<br>W/G AIR COOLED              |                                         | 310                  | 260                  | 285                  | 310                  | 285                  | 310                  | 335                   | 445                   | 545                    | 645                    | Q                      | Q                      |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 12                   | 10                   | 8                    | 6                    | 5                    | 4                    | 3                     | 2                     | 1                      | .8                     | .6                     | .3                     |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 | 1.1:1                 | 1.2:1                  | 1.2:1                  | 1.2:1                  | 1.3:1                  |
| <b>(##)-2020</b> LOW POWER LOADS \$<br>FINS - AIR COOLED            |                                         | 410                  | 360                  | 385                  | 435                  | 385                  | 435                  | 510                   |                       |                        |                        |                        |                        |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 25                   | 20                   | 15                   | 12                   | 10                   | 8                    | 6                     |                       |                        |                        |                        |                        |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 |                       |                        |                        |                        |                        |
| <b>(##)-2030</b> MED. POWER LOADS \$<br>FINS - FORCED AIR COOLED    |                                         | 525                  | 475                  | 500                  | 550                  | 500                  | 550                  | 625                   |                       |                        |                        |                        |                        |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 50                   | 35                   | 25                   | 20                   | 16                   | 14                   | 10                    |                       |                        |                        |                        |                        |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 |                       |                        |                        |                        |                        |
| <b>(##)-2035</b> HIGH POWER LOADS \$<br>FINS - FORCED AIR COOLED    |                                         | 700                  | 575                  | 600                  | 650                  | 625                  | 725                  | 825                   |                       |                        |                        |                        |                        |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 125                  | 100                  | 75                   | 60                   | 45                   | 35                   | 25                    |                       |                        |                        |                        |                        |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 |                       |                        |                        |                        |                        |
| <b>(##)-2040</b> X-TRA Hi. Po. LOADS \$<br>FINS - FORCED AIR COOLED |                                         | 900                  | 700                  | 775                  | 925                  | 775                  | 875                  | 975                   |                       |                        |                        |                        |                        |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 350                  | 275                  | 200                  | 175                  | 125                  | 90                   | 60                    |                       |                        |                        |                        |                        |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 |                       |                        |                        |                        |                        |
| <b>(##)-2045</b> SUPER Hi. Po. LOADS \$<br>FINS - FORCED AIR COOLED |                                         | 1225                 | 925                  | 1025                 | 1225                 | 1025                 | 1225                 | 1425                  |                       |                        |                        |                        |                        |
| MAXIMUM CW Po. (WATTS)                                              |                                         | 600                  | 500                  | 450                  | 400                  | 300                  | 250                  | 200                   |                       |                        |                        |                        |                        |
| TYPICAL VSWR -----                                                  |                                         | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                | 1.1:1                 |                       |                        |                        |                        |                        |

**ELECTRICAL SPECIFICATIONS ARE AS MEASURED ON LOW LEVEL SWEEP SYSTEMS TO 176 GHz**

|                                                                                                                       |                                   |              |              |              |              |              |              |               |               |                |                |                |                |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|----------------|----------------|----------------|----------------|
| Page 11                                                                                                               | TE <sub>10</sub> FREQUENCY IN GHz | 18.0<br>26.5 | 26.5<br>40.0 | 33.0<br>50.0 | 40.0<br>60.0 | 50.0<br>75.0 | 60.0<br>90.0 | 75.0<br>110.0 | 90.0<br>140.0 | 110.0<br>170.0 | 140.0<br>220.0 | 170.0<br>260.0 | 220.0<br>325.0 |
| AEROWAVE FLANGE INTERFACE                                                                                             |                                   | 42-0101      | 28-0101      | 22-0110      | 19-0110      | 15-0120      | 12-0120      | 10-0120       | 08-0130       | 06-0130        | 05-0130        | 04-0130        | 03-0130        |
| EIA WAVEGUIDE WR- ( # # )                                                                                             |                                   | 42           | 28           | 22           | 19           | 15           | 12           | 10            | 08            | 06             | 05             | 04             | 03             |
| HIGH POWER LOADS                                                                                                      |                                   |              |              |              |              |              |              |               |               |                |                |                |                |
| <b>(##)-2050</b> X-TRA Hi. Po. LOADS \$<br>LIQUID COOLED<br>MAXIMUM CW Po. (WATTS)<br>TYPICAL VSWR -----              |                                   | 1300         | 1000         | 1100         | 1300         | 1100         | 1300         | 1500          |               |                |                |                |                |
| <b>(##)-2055</b> SUPER Po. LOADS \$<br>LIQUID COOLED<br>MAXIMUM CW Po. (WATTS)<br>TYPICAL VSWR -----                  |                                   | 1500         | 1300         | 1400         | 1600         | 1300         | 1600         | 1800          |               |                |                |                |                |
| <b>TUNABLE LOADS</b><br>TYPICAL VSWR < .00x : 1<br>> ½ λ TRAVEL<br>TUNING STRUCTURE LOCKABLE<br>TYPICAL CW Po (WATTS) |                                   | 1.1          | 0.8          | 0.6          | 0.5          | 0.4          | 0.3          | 0.2           | 0.1           | 0.06           | 0.03           | --             | --             |
| <b>(##)-2075</b> MICROMETER TUNABLE \$                                                                                |                                   | 550          | 450          | 525          | 600          | 525          | 575          | 600           | 725           | 825            | 925            | Q              | Q              |

