

WIDEBAND CIRCULATORS AND ISOLATORS

Designed to operate over a wide temperature range and in severe environmental conditions our range of stripline coaxial circulators and isolators cover the frequency range 1.0GHz - 18.0GHz. Multiport versions are available.

Custom designs are available on request.

| Frequency<br>(GHz) | TYPE NUMBER |          | SPECIFICATION         |                               |                            | Operating<br>Temp(°C) | DIMENSIONS (mm) |       |      | POWER             |
|--------------------|-------------|----------|-----------------------|-------------------------------|----------------------------|-----------------------|-----------------|-------|------|-------------------|
|                    | Circulator  | Isolator | Isolation<br>(dB) min | Insertion<br>Loss<br>(dB) max | Return<br>Loss<br>(dB) min |                       | a               | b     | c    | Forward CW<br>(W) |
| 1.000 to 18.000GHz |             |          |                       |                               |                            |                       |                 |       |      |                   |
| 1.0 - 2.0          | LG 3091     | LD 3091  | 19.0                  | 0.5                           | 19                         | +25                   | 76              | 76    | 26   | 40                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | 0 to +55              |                 |       |      |                   |
| 2.0 - 4.0          | SG 3091     | SD 3091  | 20.0                  | 0.4                           | 20                         | +25                   | 40.25           | 40.25 | 19   | 30                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 3.9 - 8.0          | CG 3091     | CD 3091  | 18.0                  | 0.4                           | 18                         | +25                   | 25.4            | 25.4  | 12.7 | 30                |
|                    |             |          | 18.0                  | 0.6                           | 16.5                       | -54 to +71            |                 |       |      |                   |
| 4.0 - 8.0          | CG 3092     | CD 3092  | 20.0                  | 0.4                           | 20                         | +25                   | 25.4            | 27.7  | 12.7 | 30                |
|                    |             |          | 17.0                  | 0.5                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 4.8 - 9.6          | CG 3093     | CD 3093  | 20.0                  | 0.4                           | 19                         | +25                   | 33.33           | 34.8  | 13.5 | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -40 to +100           |                 |       |      |                   |
| 6.0 - 12.0         | XG 3091     | XD 3091  | 20.0                  | 0.5                           | 19                         | +25                   | 22.3            | 25.4  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 7.0 - 12.4         | XG 3092     | XD 3092  | 20.0                  | 0.4                           | 19                         | +25                   | 22.4            | 22.4  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 8.0 - 16.0         | XG 3093     | XD 3093  | 18.0                  | 0.5                           | 18                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 7.5 - 17.0         | JG 3091     | JD 3091  | 15.0                  | 0.8                           | 14                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 15.0                  | 0.8                           | 13.5                       | -54 to +85            |                 |       |      |                   |
| 7.5 - 18.0         | JG 3092     | JD 3092  | 15.0                  | 0.8                           | 14                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 15.0                  | 0.8                           | 13.5                       | -54 to +85            |                 |       |      |                   |
| 8.5 - 17.0         | JG 3093     | JD 3093  | 20.0                  | 0.5                           | 19                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 9.0 - 16.5         | JG 3094     | JD 3094  | 20.0                  | 0.5                           | 19                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +85            |                 |       |      |                   |
| 11.0 - 18.0        | JG 3095     | JD 3095  | 20.0                  | 0.5                           | 20                         | +25                   | 15.9            | 20.6  | 16   | 10                |
|                    |             |          | 17.0                  | 0.6                           | 16.5                       | -54 to +71            |                 |       |      |                   |

