

## Coupleurs directionnels

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## Hybrides 90° - 180°

ClearMicrowave propose une gamme de coupleur directionnel / hybrides hyper DC-40GHz très complète

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## Coupleurs Directionnels

| Multi-Octave Band Directional Couplers |                       |               |                     |                   |                  |
|--|-----------------------|---------------|---------------------|-------------------|------------------|
| Model Number                           | Frequency Range (GHz) | Coupling (dB) | Insertion Loss (dB) | Input Output VSWR | Directivity (dB) |
| <a href="#">C60108</a>                 | 1.0 - 8.0             | 6             | 0.5                 | 1.35:1            | 18               |
| <a href="#">C10108</a>                 | 1.0 - 8.0             | 10            | 0.5                 | 1.35:1            | 18               |
| <a href="#">C20108</a>                 | 1.0 - 8.0             | 20            | 0.5                 | 1.35:1            | 18               |
| <a href="#">C20140</a>                 | 1.0 - 40.0            | 20            | 1.3                 | 1.50:1            | 14               |
| <a href="#">C60208</a>                 | 2.0 - 8.0             | 6             | 0.5                 | 1.25:1            | 18               |
| <a href="#">C10208</a>                 | 2.0 - 8.0             | 10            | 0.5                 | 1.25:1            | 18               |
| <a href="#">C20208</a>                 | 2.0 - 8.0             | 20            | 0.5                 | 1.25:1            | 18               |
| <a href="#">C60218</a>                 | 2.0 - 18.0            | 6             | 0.8                 | 1.35:1            | 15               |
| <a href="#">C10218</a>                 | 2.0 - 18.0            | 10            | 0.8                 | 1.35:1            | 15               |
| <a href="#">C20218</a>                 | 2.0 - 18.0            | 20            | 0.8                 | 1.35:1            | 15               |
| <a href="#">C60418</a>                 | 4.0 - 18.0            | 6             | 0.5                 | 1.25:1            | 18               |
| <a href="#">C10418</a>                 | 4.0 - 18.0            | 10            | 0.5                 | 1.25:1            | 18               |
| <a href="#">C20418</a>                 | 4.0 - 18.0            | 20            | 0.5                 | 1.25:1            | 18               |
| <a href="#">C60618</a>                 | 6.0 - 18.0            | 6             | 0.5                 | 1.20:1            | 20               |
| <a href="#">C10618</a>                 | 6.0 - 18.0            | 10            | 0.5                 | 1.20:1            | 20               |
| <a href="#">C20618</a>                 | 6.0 - 18.0            | 20            | 0.5                 | 1.20:1            | 20               |

| Octave Band Directional Couplers |                       |               |                     |                   |                  |
|----------------------------------|-----------------------|---------------|---------------------|-------------------|------------------|
| Model Number                     | Frequency Range (GHz) | Coupling (dB) | Insertion Loss (dB) | Input Output VSWR | Directivity (dB) |
| <a href="#">C60102</a>           | 1.0 - 2.0             | 6             | 0.3                 | 1.15:1            | 22               |
| <a href="#">C10102</a>           | 1.0 - 2.0             | 10            | 0.3                 | 1.15:1            | 22               |
| <a href="#">C20102</a>           | 1.0 - 2.0             | 20            | 0.3                 | 1.15:1            | 22               |
| <a href="#">C60204</a>           | 2.0 - 4.0             | 6             | 0.3                 | 1.25:1            | 22               |
| <a href="#">C10204</a>           | 2.0 - 4.0             | 10            | 0.3                 | 1.25:1            | 22               |
| <a href="#">C20204</a>           | 2.0 - 4.0             | 20            | 0.3                 | 1.25:1            | 22               |
| <a href="#">C60408</a>           | 4.0 - 8.0             | 6             | 0.4                 | 1.25:1            | 20               |
| <a href="#">C10408</a>           | 4.0 - 8.0             | 10            | 0.4                 | 1.25:1            | 20               |
| <a href="#">C20408</a>           | 4.0 - 8.0             | 20            | 0.4                 | 1.25:1            | 20               |

| <b>Octave Band Directional Couplers (Suite)</b> |                              |                      |                            |                          |                         |
|---|------------------------------|----------------------|----------------------------|--------------------------|-------------------------|
| <b>Model Number</b>                             | <b>Frequency Range (GHz)</b> | <b>Coupling (dB)</b> | <b>Insertion Loss (dB)</b> | <b>Input Output VSWR</b> | <b>Directivity (dB)</b> |
| <a href="#">C60612</a>                          | 6.0 - 12.0                   | 6                    | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C10612</a>                          | 6.0 - 12.0                   | 10                   | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C20612</a>                          | 6.0 - 12.0                   | 20                   | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C60816</a>                          | 8.0 - 16.0                   | 6                    | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C10816</a>                          | 8.0 - 16.0                   | 10                   | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C20816</a>                          | 8.0 - 16.0                   | 20                   | 0.5                        | 1.18:1                   | 22                      |
| <a href="#">C60918</a>                          | 9.0 - 18.0                   | 6                    | 0.6                        | 1.20:1                   | 22                      |
| <a href="#">C10918</a>                          | 9.0 - 18.0                   | 10                   | 0.6                        | 1.20:1                   | 22                      |
| <a href="#">C20918</a>                          | 9.0 - 18.0                   | 20                   | 0.6                        | 1.20:1                   | 22                      |
| <a href="#">C61224</a>                          | 12.0 - 24.0                  | 6                    | 0.8                        | 1.40:1                   | 15                      |
| <a href="#">C11224</a>                          | 12.0 - 24.0                  | 10                   | 0.8                        | 1.40:1                   | 15                      |
| <a href="#">C21224</a>                          | 12.0 - 24.0                  | 20                   | 0.8                        | 1.40:1                   | 15                      |

| <b>Specific Application Band Couplers</b> |                              |                      |                            |                          |                         |
|---|------------------------------|----------------------|----------------------------|--------------------------|-------------------------|
| <b>Model Number</b>                       | <b>Frequency Range (GHz)</b> | <b>Coupling (dB)</b> | <b>Insertion Loss (dB)</b> | <b>Input Output VSWR</b> | <b>Directivity (dB)</b> |
| <a href="#">CS6040</a>                    | 3.7 - 4.2                    | 6                    | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS1040</a>                    | 3.7 - 4.2                    | 10                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS2040</a>                    | 3.7 - 4.2                    | 20                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS6060</a>                    | 5.4 - 5.9                    | 6                    | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS1060</a>                    | 5.4 - 5.9                    | 10                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS2060</a>                    | 5.4 - 5.9                    | 20                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS6080</a>                    | 7.25 - 7.75                  | 6                    | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS1080</a>                    | 7.25 - 7.75                  | 10                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS2080</a>                    | 7.25 - 7.75                  | 20                   | 0.3                        | 1.20:1                   | 24                      |
| <a href="#">CS6110</a>                    | 9.5 - 10.0                   | 6                    | 0.3                        | 1.20:1                   | 22                      |
| <a href="#">CS1110</a>                    | 9.5 - 10.0                   | 10                   | 0.3                        | 1.20:1                   | 22                      |
| <a href="#">CS2110</a>                    | 9.5 - 10.0                   | 20                   | 0.3                        | 1.20:1                   | 22                      |
| <a href="#">CS6130</a>                    | 10.7 - 11.2                  | 6                    | 0.4                        | 1.20:1                   | 22                      |
| <a href="#">CS1130</a>                    | 10.7 - 11.2                  | 10                   | 0.4                        | 1.20:1                   | 22                      |
| <a href="#">CS2130</a>                    | 10.7 - 11.2                  | 20                   | 0.4                        | 1.20:1                   | 22                      |
| <a href="#">CS6240</a>                    | 20.2 - 21.2                  | 6                    | 0.9                        | 1.35:1                   | 18                      |
| <a href="#">CS1240</a>                    | 20.2 - 21.2                  | 10                   | 0.9                        | 1.35:1                   | 18                      |
| <a href="#">CS2240</a>                    | 20.2 - 21.2                  | 20                   | 0.9                        | 1.35:1                   | 18                      |
| <a href="#">CS6300</a>                    | 29.3 - 31.0                  | 6                    | 1.2                        | 1.45:1                   | 15                      |
| <a href="#">CS1300</a>                    | 29.3 - 31.0                  | 10                   | 1.2                        | 1.45:1                   | 15                      |
| <a href="#">CS2300</a>                    | 29.3 - 31.0                  | 20                   | 1.2                        | 1.45:1                   | 15                      |

# HYBRIDES 90°

| <b>3 dB 90° Hybrid Couplers</b>       |                              |                             |                                 |                       |             |                            |
|---------------------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------|-------------|----------------------------|
| <b>Model Number</b>                   | <b>Frequency Range (GHz)</b> | <b>Phase Balance (±deg)</b> | <b>Frequency Flatness (±dB)</b> | <b>Isolation (dB)</b> | <b>VSWR</b> | <b>Insertion Loss (dB)</b> |
| <b>Multi-Octave Band</b>              |                              |                             |                                 |                       |             |                            |
| <a href="#">QV-2D25</a>               | 0.5-4                        | 3                           | 0.4                             | 20                    | 1.30:1      | 0.6                        |
| <a href="#">QV-1D70</a>               | 0.7-2.7                      | 2                           | 0.3                             | 23                    | 1.25:1      | 0.5                        |
| <a href="#">QS-1D50</a>               | 0.8-2.2                      | 2.5                         | 0.3                             | 23                    | 1.25:1      | 0.4                        |
| <a href="#">QS-2D50</a>               | 1-4                          | 3                           | 0.4                             | 21                    | 1.25:1      | 0.5                        |
| <a href="#">QV-4D50</a>               | 1-8                          | 3                           | 0.5                             | 18                    | 1.35:1      | 0.7                        |
| <a href="#">QJ-9D50</a>               | 1-18                         | 8                           | 1                               | 15                    | 1.50:1      | 1.2                        |
| <a href="#">QS-7D00</a>               | 2-12                         | 4                           | 0.7                             | 17                    | 1.35:1      | 0.7                        |
| <a href="#">QV-10D00</a>              | 2-18                         | 6                           | 0.7                             | 16                    | 1.40:1      | 0.8                        |
| <a href="#">QQ-14D25</a>              | 2-26.5                       | 10                          | 1                               | 14                    | 1.50:1      | 1.4                        |
| <a href="#">QS-7D50</a>               | 3-12                         | 4                           | 0.7                             | 17                    | 1.35:1      | 0.7                        |
| <a href="#">QS-10D50</a>              | 3-18                         | 5                           | 0.7                             | 16                    | 1.40:1      | 0.8                        |
| <a href="#">QS-12D00</a>              | 6-18                         | 4                           | 0.6                             | 18                    | 1.35:1      | 0.8                        |
| <a href="#">QS-17D25</a>              | 8-26.5                       | 7                           | 0.8                             | 16                    | 1.45:1      | 0.9                        |
| <b>Octave-Band</b>                    |                              |                             |                                 |                       |             |                            |
| <a href="#">QY-0D75</a>               | 0.5-1                        | 1                           | 0.4                             | 25                    | 1.15:1      | 0.15                       |
| <a href="#">QY-1D50</a>               | 1-2                          | 2                           | 0.4                             | 25                    | 1.20:1      | 0.15                       |
| <a href="#">QY-3D90</a>               | 2.6-5.2                      | 2                           | 0.45                            | 23                    | 1.25:1      | 0.2                        |
| <a href="#">QY-6D00</a>               | 4-8                          | 2                           | 0.5                             | 20                    | 1.25:1      | 0.3                        |
| <a href="#">QY-9D00</a>               | 6-12                         | 3                           | 0.5                             | 20                    | 1.25:1      | 0.35                       |
| <a href="#">QY-12D00</a>              | 8-16                         | 4                           | 0.5                             | 18                    | 1.30:1      | 0.45                       |
| <a href="#">QY-18D00</a>              | 12-24                        | 5                           | 0.6                             | 16                    | 1.35:1      | 0.6                        |
| <a href="#">QY-30D00</a>              | 20-40                        | 6                           | 0.7                             | 14                    | 1.45:1      | 0.7                        |
| <b>Specific Application Band</b>      |                              |                             |                                 |                       |             |                            |
| <a href="#">QNY-0D90</a>              | 0.8-1                        | 1                           | 0.2                             | 25                    | 1.15:1      | 0.15                       |
| <a href="#">QNY-1D95</a>              | 1.7-2.2                      | 1.5                         | 0.2                             | 25                    | 1.20:1      | 0.15                       |
| <a href="#">QNY-2D25</a>              | 2.1-2.4                      | 1                           | 0.2                             | 25                    | 1.20:1      | 0.2                        |
| <a href="#">QNY-3D95</a>              | 3.7-4.2                      | 1.5                         | 0.2                             | 25                    | 1.25:1      | 0.25                       |
| <a href="#">QNY-5D70</a>              | 5.5-5.9                      | 2                           | 0.2                             | 23                    | 1.25:1      | 0.25                       |
| <a href="#">QNY-8D15</a>              | 7.9-8.4                      | 2                           | 0.2                             | 23                    | 1.25:1      | 0.3                        |
| <a href="#">QNY-10D95</a>             | 10.7-11.2                    | 2                           | 0.2                             | 20                    | 1.25:1      | 0.35                       |
| <a href="#">QNY-14D25</a>             | 14-14.5                      | 2                           | 0.3                             | 20                    | 1.30:1      | 0.45                       |
| <a href="#">QNY-20D70</a>             | 20.2-21.2                    | 3                           | 0.3                             | 18                    | 1.40:1      | 0.7                        |
| <b>Supper Flat Frequency Response</b> |                              |                             |                                 |                       |             |                            |
| <a href="#">QFY-0D75</a>              | 0.5-1                        | 1                           | 0.1                             | 25                    | 1.20:1      | 0.3                        |
| <a href="#">QFY-3D90</a>              | 2.6-5.2                      | 1                           | 0.1                             | 25                    | 1.20:1      | 0.5                        |
| <a href="#">QFY-6D00</a>              | 4-8                          | 1.5                         | 0.15                            | 23                    | 1.25:1      | 0.6                        |
| <a href="#">QFY-9D00</a>              | 6-12                         | 2                           | 0.2                             | 20                    | 1.25:1      | 0.7                        |
| <a href="#">QFY-12D00</a>             | 8-16                         | 2                           | 0.2                             | 20                    | 1.30:1      | 0.8                        |

# HYBRIDES 180°

| <b>3 dB 180° Hybrid Couplers</b>      |                              |                             |                                 |                       |             |                            |
|---------------------------------------|------------------------------|-----------------------------|---------------------------------|-----------------------|-------------|----------------------------|
| <b>Model Number</b>                   | <b>Frequency Range (GHz)</b> | <b>Phase Balance (±deg)</b> | <b>Frequency Flatness (±dB)</b> | <b>Isolation (dB)</b> | <b>VSWR</b> | <b>Insertion Loss (dB)</b> |
| <b>Multi-Octave Band</b>              |                              |                             |                                 |                       |             |                            |
| <a href="#">DS-1D50</a>               | 0.8-2.2                      | 5                           | 0.4                             | 23                    | 1.25:1      | 0.5                        |
| <a href="#">DS-2D00</a>               | 1-3                          | 6                           | 0.4                             | 22                    | 1.25:1      | 0.6                        |
| <a href="#">DS-4D00</a>               | 2-6                          | 7                           | 0.6                             | 20                    | 1.30:1      | 0.6                        |
| <a href="#">DS-7D50</a>               | 3-12                         | 8                           | 0.8                             | 17                    | 1.35:1      | 0.7                        |
| <a href="#">DS-12D00</a>              | 6-18                         | 10                          | 1                               | 15                    | 1.50:1      | 1                          |
| <a href="#">DS-18D25</a>              | 10-26.5                      | 12                          | 1                               | 15                    | 1.50:1      | 1.2                        |
| <b>Octave-Band</b>                    |                              |                             |                                 |                       |             |                            |
| <a href="#">DY-0D75</a>               | 0.5-1                        | 4                           | 0.5                             | 25                    | 1.25:1      | 0.5                        |
| <a href="#">DY-1D50</a>               | 1-2                          | 4                           | 0.5                             | 25                    | 1.25:1      | 0.5                        |
| <a href="#">DY-3D90</a>               | 2.6-5.2                      | 4                           | 0.6                             | 23                    | 1.30:1      | 0.6                        |
| <a href="#">DY-6D00</a>               | 4-8                          | 5                           | 0.6                             | 20                    | 1.30:1      | 0.6                        |
| <a href="#">DY-9D00</a>               | 6-12                         | 5                           | 0.7                             | 20                    | 1.35:1      | 0.65                       |
| <a href="#">DY-12D00</a>              | 8-16                         | 6                           | 0.7                             | 18                    | 1.35:1      | 0.7                        |
| <a href="#">DY-18D00</a>              | 12-24                        | 7                           | 0.8                             | 16                    | 1.40:1      | 0.8                        |
| <a href="#">DY-30D00</a>              | 20-40                        | 9                           | 0.9                             | 14                    | 1.50:1      | 1                          |
| <b>Specific Application Band</b>      |                              |                             |                                 |                       |             |                            |
| <a href="#">DNY-0D90</a>              | 0.8-1                        | 3                           | 0.2                             | 25                    | 1.15:1      | 0.2                        |
| <a href="#">DNY-1D95</a>              | 1.7-2.2                      | 4                           | 0.2                             | 25                    | 1.20:1      | 0.2                        |
| <a href="#">DNY-2D25</a>              | 2.1-2.4                      | 4                           | 0.2                             | 25                    | 1.25:1      | 0.25                       |
| <a href="#">DNY-3D95</a>              | 3.7-4.2                      | 4                           | 0.3                             | 25                    | 1.30:1      | 0.3                        |
| <a href="#">DNY-5D70</a>              | 5.5-5.9                      | 5                           | 0.3                             | 23                    | 1.30:1      | 0.35                       |
| <a href="#">DNY-8D15</a>              | 7.9-8.4                      | 5                           | 0.3                             | 23                    | 1.30:1      | 0.4                        |
| <a href="#">DNY-10D95</a>             | 10.7-11.2                    | 5                           | 0.4                             | 20                    | 1.35:1      | 0.5                        |
| <a href="#">DNY-14D25</a>             | 14-14.5                      | 5                           | 0.4                             | 20                    | 1.40:1      | 0.65                       |
| <a href="#">DNY-20D70</a>             | 20.2-21.2                    | 6                           | 0.5                             | 18                    | 1.50:1      | 0.8                        |
| <b>Supper Flat Frequency Response</b> |                              |                             |                                 |                       |             |                            |
| <a href="#">DFY-1D50</a>              | 1-2                          | 4                           | 0.2                             | 25                    | 1.25:1      | 0.4                        |
| <a href="#">DFY-3D90</a>              | 2.6-5.2                      | 4                           | 0.2                             | 25                    | 1.25:1      | 0.6                        |
| <a href="#">DFY-6D00</a>              | 4-8                          | 5                           | 0.25                            | 23                    | 1.35:1      | 0.7                        |
| <a href="#">DFY-9D00</a>              | 6-12                         | 6                           | 0.3                             | 20                    | 1.40:1      | 0.8                        |
| <a href="#">DFY-12D00</a>             | 8-16                         | 6                           | 0.3                             | 20                    | 1.50:1      | 0.9                        |