

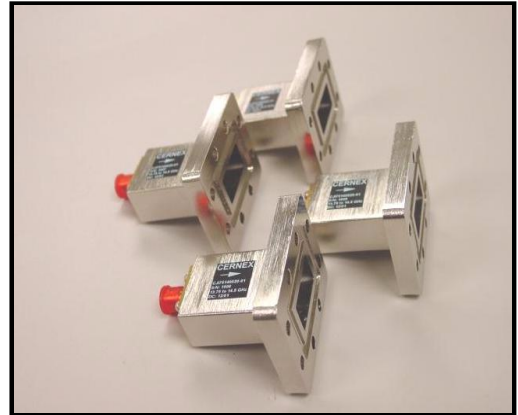
ISO Adapters

FEATURES:

- ❖ Low Cost, High Quality
- ❖ Compact Size, Light Weight
- ❖ High Performance
- ❖ Wide Operation Temperature Range

APPLICATIONS:

- ❖ Load isolation
- ❖ Module integration



CIA Series

SPECIFICATIONS:

ISOLATORS:

| Model No. | Frequency Range (GHz) | Band Width (MHz) | Insert. Loss (dB) Max | Isolation (dB) Min | VSWR (Max) | Operating Temp. Range (°C) | Waveguide Type | Size LXWXH (mm) | Type |
|-------------------|-----------------------|------------------|-----------------------|--------------------|------------|----------------------------|----------------|-----------------|-------------|
| CIA02030325SI | 2.7-3.3 | full | 0.3 | 25 | 1.15 | -40+70 | WR284 | - | inLine |
| *CIA03040227SR-XX | 3.4-4.8 | 680 | 0.25 | 27 | 1.12 | -40+70 | WR229 | - | Right Angle |
| CIA03040227SI | 3.6-4.2 | full | 0.2 | 27 | 1.12 | -40+70 | WR229 | - | inLine |
| *CIA04050225SI-XX | 4.4-5.0 | 660 | 0.2 | 25 | 1.15 | -40+70 | WR187 | - | inLine |
| *CIA04050225SR-XX | 4.4-5.8 | 660 | 0.25 | 25 | 1.15 | -40+70 | WR187 | - | Right Angle |
| *CIA04060323SI-XX | 4.5-6.0 | 900 | 0.3 | 23 | 1.15 | -40+70 | WR159 | - | inLine |
| *CIA04060323SR-XX | 4.5-6.0 | 900 | 0.3 | 23 | 1.15 | -40+70 | WR159 | - | Right Angle |
| *CIA05080325SI-XX | 5.9-8.3 | 880 | 0.3 | 25 | 1.15 | -40+70 | WR137 | - | inLine |
| *CIA05080325SR-XX | 5.9-8.3 | 1100 | 0.3 | 25 | 1.15 | -40+70 | WR137 | - | Right Angle |
| *CIA06090325G-XX | 6.57-9.99 | 500 | 0.3 | 25 | 1.20 | -40+85 | WR112 | 58X48X48 | Right Angle |
| *CIA06090420G-XX | 6.57-9.99 | 1000 | 0.4 | 20 | 1.25 | -40+85 | WR112 | 58X48X48 | Right Angle |
| *CIA07100325SI-XX | 7.1-10.0 | 1000 | 0.35 | 25 | 1.15 | -40+70 | WR112 | - | inLine |
| *CIA07100325SR-XX | 7.1-10.0 | 1400 | 0.35 | 25 | 1.15 | -40+70 | WR112 | - | Right Angle |
| *CIA08120325SI-XX | 8.2-12.4 | 1200 | 0.35 | 25 | 1.15 | -40+70 | WR90 | - | inLine |
| *CIA08120325SR-XX | 8.2-12.4 | 1600 | 0.35 | 25 | 1.15 | -40+70 | WR90 | - | Right Angle |
| *CIA08120325G-XX | 8.2-12.5 | 500 | 0.3 | 25 | 1.20 | -40+85 | WR90 | 36X42X42 | Right Angle |
| *CIA08120420G-XX | 8.2-12.5 | 1000 | 0.4 | 20 | 1.25 | -40+85 | WR90 | 36X42X42 | Right Angle |
| *CIA09150325G-XX | 9.84-15.0 | 500 | 0.3 | 25 | 1.20 | -40+85 | WR75 | 36X38X38 | Right Angle |
| *CIA09150325G1-XX | 9.84-15.0 | 500 | 0.3 | 25 | 1.20 | -40+85 | WR75 | 36X38X38 | Right Angle |
| *CIA09150420G-XX | 9.84-15.0 | 1000 | 0.4 | 20 | 1.15 | -40+85 | WR75 | 36X38X38 | Right Angle |
| *CIA09150423G-XX | 9.84-15.0 | 1000 | 0.4 | 23 | 1.20 | -40+85 | WR75 | 30.2X38X38 | Right Angle |
| *CIA10130325SI-XX | 10.4-13.5 | 1500 | 0.35 | 25 | 1.15 | -40+70 | WR75 | - | inLine |

CERNEXWAVE

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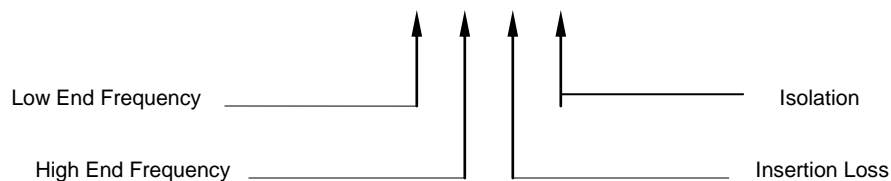
| Model No. | Frequency Range (GHz) | Band Width (MHz) | Insert. Loss (dB) Max | Isolation (dB Min) | VSWR (Max) | Operating Temp. Range (°C) | Waveguide Type | Size LXWXH (mm) | Connector Type |
|-------------------|-----------------------|------------------|-----------------------|--------------------|------------|----------------------------|----------------|-----------------|----------------|
| *CIA11180325G-XX | 11.9-18.0 | 500 | 0.3 | 25 | 1.20 | -40-+85 | WR62 | 26X37X33 | Right Angle |
| *CIA11180420G-XX | 11.9-18.0 | 1000 | 0.4 | 20 | 1.25 | -40-+85 | WR62 | 26X37X33 | Right Angle |
| *CIA12180325SR-XX | 12.5-18.0 | 2500 | 0.35 | 25 | 1.15 | -40-+70 | WR62 | - | Right Angle |

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

*THE SPECIFICATIONS FOR THESE MODELS ARE ONLY FOR THE SPECIFIED FREQUENCY BW.

HOW TO ORDER CUSTOM PARTS:

Specify Model Number CIA – LF HF IL IS – XX ← To be specified by the factory



Example: To order a 2-4 GHz isolator adapter with 0.5 dB maximum insertion loss and 20 dB minimum isolation and, specify CIA-02040520-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE