



Broadband Coaxial Isolators and Circulators

FEATURES:

- ❖ Low Cost, High Quality
- ❖ Compact Size, Light Weight
- ❖ High Performance
- ❖ Wide Operation Temperature Range
- ❖ Octave and Multi-octave Bands

APPLICATIONS:

- ❖ Load isolation
- ❖ Module integration



COI & COC Series

SPECIFICATIONS:

ISOLATORS:

| Model No. | Frequency Range (GHz) | Band Width (MHz) | Insert. Loss (dB Max) | Isolation (dB Min) | VSWR (Max) | Operating Temp. Range (°C) | Power (W) | Size LXWXH (mm) | Connector Type |
|---------------|-----------------------|------------------|-----------------------|--------------------|------------|----------------------------|-----------|-----------------|----------------|
| COIU9010520G1 | 0.96-1.22 | full | 0.5 | 20 | 1.25 | -30+70 | 10 | 30X33X15 | SMA |
| COIU9010520G2 | 0.96-1.22 | full | 0.5 | 20 | 1.25 | -30+70 | 10 | 30X33X20 | N |
| COIU9010520G3 | 0.98-1.14 | full | 0.5 | 20 | 1.25 | -30+70 | 10 | 25X25X15 | SMA |
| COI01020716G | 1-2 | full | 0.7 | 16 | 1.40 | -15+60 | 10 | 70X80X21 | SMA/N |
| COI02030520S | 2-3 | full | 0.5 | 20 | 1.25 | -40+70 | 20 | 25X30X15 | SMA/N |
| COI02040618G | 2-4 | full | 0.6 | 18 | 1.40 | -30+70 | 10 | 32X34X18 | SMA/N |
| COI02061415G | 2-6 | full | 1.4 | 15 | 1.50 | - | 10 | 60X42X19 | - |
| COI02081512G | 2-8 | full | 1.5 | 12 | 1.80 | -30+70 | 10 | 60X42X19 | SMA |
| COI02081515S | 2-8 | full | 1.5 | 15 | 1.50 | -40+70 | 20 | 60X37X20 | SMA |
| COI03040520S | 3-4.5 | full | 0.5 | 20 | 1.30 | -40+70 | 20 | 18X25X15 | SMA/N |
| COI03060617G | 3-6 | full | 0.6 | 17 | 1.40 | -30+70 | 10 | 25.4X34.5X13 | SMA |
| COI03060618S | 3-6 | full | 0.6 | 18 | 1.40 | -40+70 | 20 | 24X35X17.2 | SMA |
| COI04080618G | 4-8 | full | 0.6 | 18 | 1.30 | -30+70 | 10 | 25.4X31.4X12.7 | SMA |
| COI04080618S | 4-8 | full | 0.6 | 18 | 1.40 | -40+70 | 20 | 16X23X14 | SMA |
| COI06120618G | 6-12 | full | 0.6 | 18 | 1.40 | -40+75 | 10 | 16X26X13 | SMA |
| COI06120618S | 6-12 | full | 0.8 | 18 | 1.50 | -40+70 | 20 | 18X29X14 | SMA |
| COI06181512G | 6-18 | full | 1.5 | 12 | 1.80 | -40+75 | 10 | 19X27X13 | SMA |
| COI08120520G | 8-12 | full | 0.5 | 20 | 1.25 | -30+70 | 10 | 15X23X13 | SMA |
| COI08120520S | 8-12.4 | full | 0.5 | 20 | 1.30 | -40+70 | 20 | 12X20X14 | SMA |
| COI08180817G | 8-18 | full | 0.8 | 17 | 1.40 | -40+75 | 10 | 15X23X13 | SMA |



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|---------------|-----------------------|------------------|-----------------------|--------------------|------------|----------------------------|-----------|-----------------|----------------|
| COI08180816S | 8-18 | full | 0.8 | 16 | 1.50 | -40-+70 | 20 | 14X25.5X13 | SMA |
| COI10150520G1 | 10-15 | full | 0.5 | 20 | 1.25 | -30-+70 | 10 | 12X20X13 | SMA |
| COI10150520G2 | 10-15 | full | 0.5 | 20 | 1.25 | -30-+70 | 10 | 12X23X19 | N |
| COI12180620G | 12-18 | full | 0.6 | 20 | 1.30 | -30-+70 | 10 | 12X20X13 | SMA |
| COI12180520S | 12-18 | full | 0.5 | 20 | 1.30 | -30-+70 | 20 | 12X20X14 | SMA |
| COI12200717G | 12-20 | full | 0.7 | 17 | 1.40 | - | 10 | 12X20X13 | - |

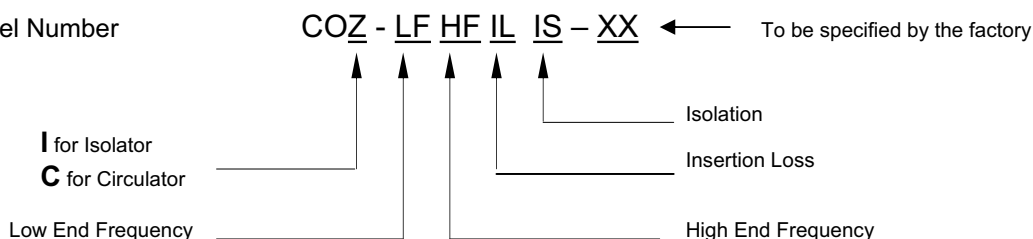
CIRCULATORS:

| Model No. | Frequency Range (GHz) | Band Width (MHz) | Insert. Loss (dB Max) | Isolation (dB Min) | VSWR (Max) | Operating Temp. Range (°C) | Power (W) | Size LXWXH (mm) | Connector Type |
|--------------|-----------------------|------------------|-----------------------|--------------------|------------|----------------------------|-----------|-----------------|----------------|
| COC01020715G | 1-2 | full | 0.7 | 15 | 1.40 | -15-+60 | 30 | 70X80X21 | SMA/N |
| COC02040616S | 2-4 | full | 0.6 | 16 | 1.40 | -30-+70 | 20 | 32X34X18 | SMA/N |
| COC03060616G | 3-6 | full | 0.6 | 16 | 1.40 | -30-+70 | 20 | 25.4X27.5X13 | SMA |
| COC04080618G | 4-8 | full | 0.6 | 18 | 1.30 | -30-+70 | 20 | 25.4X25.4X12.7 | SMA |
| COC06120616G | 6-12 | full | 0.6 | 16 | 1.40 | -40-+75 | 20 | 16X21X13 | SMA |
| COC06181512G | 6-18 | full | 1.5 | 12 | 1.80 | -40-+75 | 10 | 19X20X13 | SMA |
| COC08120520G | 8-12 | full | 0.5 | 20 | 1.25 | -40-+75 | 10 | 15X19X13 | SMA |
| COC08180816G | 8-18 | full | 0.8 | 16 | 1.50 | -40-+75 | 10 | 15X21X13 | SMA |
| COC12180618G | 12-18 | full | 0.6 | 18 | 1.35 | -40-+75 | 10 | 15X19X13 | SMA |

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

HOW TO ORDER CUSTOM PARTS:

Specify Model Number



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

CERNEX, Inc.

Broadband Coaxial Isolators and Circulators

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

