



## Coaxial Isolators and Circulators

### FEATURES:

- ❖ Low Cost, High Quality
- ❖ Compact Size, Light Weight
- ❖ High Performance
- ❖ Wide Operation Temperature Range
- ❖ Common Radar and Wireless Bands  
Frequency Bands in .08-26.5 GHz range

### 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
*COIU2U40325S	0.2-0.4	30	0.3	25	1.15	-40+70	150	62X74X30	N-F
*COIU3U40325G	0.3-0.4	30	0.3	25	1.20	-15+60	5	52X58X22	SMA/N
*COIU3U40325GH	0.3-0.4	30	0.3	25	1.20	-15+60	60	52X85X22	SMA/N
*COIU3U50550G	0.3-0.5	30	0.5	50	1.20	-15+60	60	104X57.5X22	SMA/N
*COIU4U60325G	0.4-0.6	10	0.3	25	1.20	-15+60	10	35X38X20	SMA/N
*COIU4U60325GH	0.4-0.6	30	0.3	25	1.20	-15+60	60	44X77X21	SMA/N
*COIU4010325S	0.42-1.2	60	0.3	25	1.15	-40+70	100	40X40X18.5	SMA
*COIU6010325G	0.6-1.0	30	0.3	25	1.20	-30+70	10	35X38X20	SMA/N
*COIU6010325GH	0.6-1.0	30	0.3	25	1.20	-30+70	150	35X60X20	SMA/N
*COIU6010420G	0.6-1.0	200	0.4	20	1.25	-30+70	10	35X38X20	SMA/N
*COIU6010420GH	0.6-1.0	200	0.4	20	1.25	-30+70	150	35X60X20	SMA/N
*COIU7010323S	0.7-1.0	70	0.3	23	1.2	-40+70	10	30X35.5X18	SMA/N
*COIU7010325S	0.7-1.4	100	0.3	25	1.15	-40+70	100	30X32X15	SMA/N
*COIU8010325G	0.8-1.2	70	0.3	25	1.20	-30+70	10	30X33X20	SMA/N
*COIU8010325GH	0.8-1.2	70	0.3	25	1.20	-30+70	60	30X43X20	SMA/N
*COIU8010420G	0.8-1.2	200	0.4	20	1.25	-30+70	10	30X33X20	SMA/N
*COIU8010420GH	0.8-1.2	200	0.4	20	1.25	-30+70	60	30X43X20	SMA/N
*COIU8010450G	0.8-1.2	25	0.4	50	1.20	-30+70	60	60X33X20	SMA/N
*COIU8020325G	0.8-2.0	25	0.3	25	1.20	-30+70	10	25X25X15	SMA/N
*COIU9020323S	0.9-2.3	90	0.3	23	1.2	-40+70	10	25.4X32X20	SMA/N
*COIU9020325S	0.9-2.5	100	0.3	25	1.15	-40+70	60	25.4X30X14.8	SMA/N
*COIU9020325G	0.95-2.0	70	0.3	25	1.20	-30+70	10	25.4X28.5X15	SMA/N



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*COIU9020325GH	0.95-2.0	70	0.3	25	1.20	-30-+70	60	25.4X38.5X20	SMA/N
*COI01020420G	1.0-2.0	200	0.4	20	1.25	-30-+70	10	25.4X28.5X15	SMA/N
*COI01020420GH	1.0-2.0	200	0.4	20	1.25	-30-+70	60	25.4X38.5X20	SMA/N
*COI01020325S	1.4-2.1	200	0.3	25	1.15	-40-+70	20	20X28X15	SMA
*COI01020325G	1.4-2.4	70	0.3	25	1.20	-30-+70	10	20X25.4X15	SMA
*COI01020448G1	1.6-2.2	70	0.4	48	1.20	-30-+70	10	40X27X18	SMA
*COI01020448G2	1.6-2.2	70	0.4	48	1.20	-30-+70	60	46X32X20	SMA/N
*COI01020323S	1.7-2.5	250	0.3	23	1.2	-40-+70	10	25X30X14.5	SMA
*COI01030325S	1.7-3.2	200	0.3	25	1.15	-40-+70	20	30X36X16	SMA/N
*COI01040325S	1.7-4.0	300	0.3	25	1.15	-40-+70	10	25.4X36X19	SMA
*COI01030325G1	1.8-3.0	200	0.3	25	1.20	-30-+70	5	28X30X19	SMA/N
*COI01030423G	1.8-3.0	400	0.4	23	1.20	-30-+70	5	28X30X19	SMA/N
*COI01030325G2	1.8-3.5	200	0.3	25	1.20	-30-+70	10	25X25X15	SMA
*COI01030420G	1.8-3.5	400	0.4	20	1.20	-30-+70	10	25X25X15	SMA
*COI02030325S	2.0-3.2	200	0.3	25	1.2	-40-+70	10	22X31X16	SMA/N
*COI02030323G	2-3.5.0	200	0.3	23	1.20	-30-+70	10	20X25X14	SMA
*COI02030225S	2.1-3.5	300	0.25	25	1.15	-40-+70	20	22X30X14	SMA/N
*COI02040225S	2.2-4.5	300	0.25	25	1.15	-40-+70	15	18X25.8X14	SMA
*COI03040325S	3.4-4.5	500	0.3	25	1.2	-40-+70	10	21X31.8X18.6	SMA
*COI03060325G	3.5-6.5	300	0.3	25	1.20	-40-+75	10	16X26X15	SMA
*COI03060423G	3.5-6.5	600	0.4	23	1.20	-40-+75	10	16X26X15	SMA
*COI04080225S	4.0-8.0	600	0.25	25	1.15	-40-+70	15	16X24X7	SMA/N
*COI04080325S	4.0-8.0	600	0.3	25	1.15	-40-+70	10	16X30X17	SMA/N
*COI05070650G	5.0-7.0	300	0.6	50	1.20	-40-+75	10	30X21X14	SMA
*COI05080325G	5.0-8.0	300	0.3	25	1.20	-40-+75	10	16X24X14	SMA
*COI05080423G	5.0-8.0	600	0.4	23	1.20	-40-+75	10	16X24X14	SMA
*COI07180325G	7.0-18	500	0.3	25	1.20	-40-+75	10	12X20X13	SMA
*COI07180423G	7.0-18	1000	0.4	23	1.20	-40-+75	10	12X20X13	SMA
*COI07180550G	7.0-18	500	0.5	50	1.20	-40-+75	10	24X20X13	SMA
*COI08120325S	8.0-12.4	1200	0.3	25	1.2	-40-+70	10	12X21.8X13.6	SMA
*COI08120323S	8.0-12.4	800	0.3	23	1.2	-40-+70	10	16X26X17	SMA
*COI12200325S	12-20	1800	0.3	25	1.2	-40-+70	10	12X21.8X13.6	SMA

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

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### HIGH POWER:

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
COIU2U20520S	0.22-0.26	Full	0.5	20	1.25	-40-+80	400	66X66X24	N-F
COIU3U40420S	0.38-0.48	Full	0.4	20	1.25	-40-+80	300	50X50X22	N-F
COIU9U90225S	0.925-0.960	Full	0.2	25	1.25	-30-+85	300	-	N-F
COIO1010323S1	1.4-1.6	Full	0.3	23	1.20	-40-+80	200	30X50X20	N-F
COIO3030523S	3.1-3.4	Full	0.5	23	1.20	-40-+80	80	25X30X15	N-F

### 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
*COCU3U40325G	0.3-0.4	30	0.3	25	1.20	-15-+60	150	52X58X22	SMA/N
*COCU3010325S	0.35-1.0	50	0.3	25	1.15	-40-+70	100	48X50.5X24	SMA/N
*COCU4U60323G	0.4-0.6	10	0.3	23	1.20	-15-+60	150	35X38X20	SMA/N
*COCU4U60325G	0.4-0.6	30	0.3	25	1.20	-15-+60	150	44X50X21	SMA/N
*COCU4010325S	0.42-1.2	60	0.3	25	1.15	-40-+70	100	40X40X18.5	SMA
*COCU6010323G	0.6-1.0	30	0.3	23	1.20	-15-+70	150	35X38X20	SMA/N
*COCU7010325S	0.7-1.4	100	0.3	25	1.15	-40-+70	100	30X32X15	SMA/N
*COCU8010323G	0.8-1.2	70	0.3	23	1.20	-30-+70	60	30X33X20	SMA/N
*COCU8010520G	0.8-1.2	200	0.5	20	1.25	-30-+70	60	30X33X20	SMA/N
*COCU9020323G	0.95-2.0	70	0.3	23	1.20	-30-+70	60	25.4X28.5X20	SMA/N
*COCU9020325S	0.9-2.5	100	0.3	25	1.15	-40-+70	60	25.4X27X14.8	SMA/N
*COC01020420G	1.0-2.0	200	0.4	20	1.25	-30-+70	60	25.4X28.5X20	SMA
*COC01020325S	1.4-2.1	200	0.3	25	1.15	-40-+70	20	20X25X15	SMA
*COC01020323G	1.5-2.5	70	0.3	23	1.20	-30-+70	30	20X25.4X15	SMA
*COC01030325S	1.7-3.2	250	0.3	25	1.15	-40-+70	20	30X32X22	SMA/N
*COC01030323G	1.8-3.0	200	0.3	23	1.20	-30-+70	20	28X30X19	SMA/N
*COC01030420G	1.8-3.0	400	0.4	20	1.20	-30-+70	20	28X30X19	SMA/N
*COC02030323G	2.0-3.5	200	0.3	23	1.20	-30-+70	20	25X25X15	SMA
*COC02030420G	2.0-3.5	400	0.4	20	1.20	-30-+70	20	25X25X15	SMA
*COC02030225S	2.1-3.5	300	0.25	25	1.15	-40-+70	20	22X27X14.8	SMA/N
*COC02040225S	2.2-4.5	300	0.25	25	1.15	-40-+70	15	18X24X14	SMA
*COC03060323G	3.5-6.5	300	0.3	23	1.20	-40-+75	20	20X24X18	SMA/N
*COC03060420G	3.5-6.5	600	0.4	20	1.20	-40-+75	20	20X24X18	SMA/N
*COC04080225S	4.0-8.0	600	0.25	25	1.15	-40-+70	15	16X24X14	SMA/N

# CERNEX, Inc.

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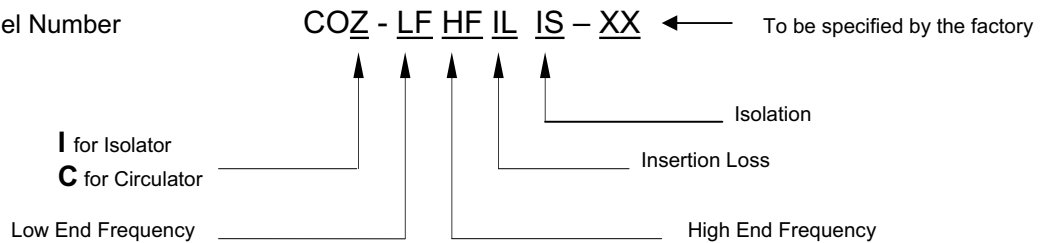
Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert. Loss (dB) Max	Isolation (dB) Min	VSWR (Max)	Operating Temp. Range (°C)	Power (W)	Size LXWXH (mm)	Connector Type
*COC05070650G	5.0-7.0	300	0.6	50	1.20	-40-+75	10	30X21X14	SMA
*COC06180323G	6.5-18	300	0.3	23	1.20	-40-+75	10	15X19X13	SMA
*COC06180420G	6.5-18	1000	0.4	20	1.20	-40-+75	10	15X19X13	SMA
*COC08120325S	8.0-12.4	1200	0.3	25	1.2	-40-+70	10	12.7X19X13.6	SMA
*COC12200325S	12-20	1800	0.3	25	1.2	-40-+70	10	12X21.8X13.6	SMA

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### HOW TO ORDER CUSTOM PARTS:

Specify Model Number



**Example:** To order a 1.8-2.0 GHz isolator with 0.3 dB maximum insertion loss and 20 dB minimum isolation and, specify COI-01020320-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

