

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.	Freq. Range (GHz)	Band Width (MHz)	Insert. Loss (dB Max)	Iso (dB Min)	VSWR (Max)	Op.Temp. Range (°C)	Pwr (W)	Size LXWXH (mm)	Conn. Type
COI01020716G	1-2	full	0.7	16	1.40	0+60	10	CH01	SMA
COI01020617G	1.35-2.7	full	0.6	17	1.4:1	0+60	10	CH02	SMA
COI01020717G	1.5-2.5	full	0.7	17	1.30	-30+70	10	CH03	SMA
COI02030518-01	2-3	full	0.5	18	1.30	0+60	100	34 X 32 X 21	SMA-F
COI0204017	2-4	full	0.5	17	1.30	0+50	150	-	N-F
COI02040518	2-4	full	0.5	18	1.30	0+50	150	-	N-F
COI02040618G	2-4	full	0.6	18	1.40	-30+70	10	CH04	SMA
COI02040618G-01	2-4	full	0.6	18	1.40	-	50	-	N-M/F
COI02041014-01	2-4.2	full	1.0	14	1.50	-40+85	10	34 X 32 X 18	SMA-F
COI02061215G	2-6	full	1.2	15	1.50	0+60	10	CH05	SMA
COI02061218-01	2-6	full	1.2	18	1.50	-40+70	10	60 X 37 X 20	SMA-F
COI02081512G	2-8	full	1.5	12	1.80	0+60	10	CH05	SMA
COI02150314-01	2-15	full	3.5	14	1.77	-	10	-	SMA-F
COI02180315	2-18	full	3.5	15	1.77	-	1	-	SMA-F
COI02180410-01	2-18	full	4.0	14	1.77	-	1	-	SMA-F
COI02020520G	2.1-2.5	full	0.5	20	1.25	-25+40	20	25 X 25 X 15	SMA-F
COI02020320	2.3-2.5	full	0.3	20	1.20	-	50	-	SMA-M/F
COI02020420-02	2.35-2.55	full	0.4	20	1.25	-	20	-	SMA-F
COI02020520-01	2.4-2.6	full	0.5	20	1.30	-	800	-	7/16 F
COI02030420-01	2.9-3.2	full	0.4	20	1.25	-30+60	100	-	-
COI03060617G	3-6	full	0.6	17	1.40	-30+70	10	CH06	SMA
COI03070617G	3-7	full	0.6	17	1.30	-25+40	10	-	SMA-F



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COI03030520N	3.1-3.4	full	0.5	20	1.25	-	200	40 X 40 X 30	N-F
COI03050518-01	3.3-5	full	0.5	18	1.30	-30+75	120	28 X 25.4 X 14	SMA-F
COI03070617G	3.5-7	full	0.6	17	1.40	-30+70	10	CH07	SMA
COI03040320G-01	3.9-4.3	full	0.35	20	1.25	-	1	26 X 19 X 16	N-M/F
COI04060518-01	4-6	full	0.5	18	1.30	-30+75	20	22.5 X 21 X 15	SMA-M/F
COI04080520	4-8	full	0.6	18	1.35	-	50	-	SMA-F
COI04080617G	4-8	full	0.6	17	1.35	-25+40	20	26 X 20 X 14	SMA-F
COI04080618	4-8	full	0.6	18	1.35	-	50	-	SMA-F
COI04080618G	4-8	full	0.6	18	1.30	-30+70	5	CH08	SMA
COI05060520K	5-6	full	0.5	20	1.20	-20+60	-	22 X 15 X 13.8	SMA-F
COI05100618G	5-10	full	0.6	18	1.30	-30+70	5	CH08	SMA
COI05050418-01	5.2-5.9	full	0.4	18	1.30	-30+75	120	28 X 25.4 X 14	N-F
COI05050420	5.3-5.9	full	0.4	20	1.25	-	20	-	-
COI06070520G	6-7.6	full	0.5	20	1.25	-40+85	1	26 X 16 X 15	SMA-F
COI06080423K	6-8	full	0.4	23	1.20	-40+85	5	23.8 X 16 X 13.8	SMA-F
COI06080618K	6-8	full	0.6	18	1.30	-20+60	5	-	SMA-F
COI06120618G	6-12	full	0.6	18	1.40	-30+70	5	CH09	SMA
COI06181014	6-18	full	1.0	14	1.49	-40+85	20	-	SMA-F
COI06181312G	6-18	full	1.35	12	1.67	-40+85	20	20.5 X 16 X 13.6	SMA-F
COI06181412G	6-18	full	1.4	12	1.66	-40+85	10	20.5 X 16 X 13.6	SMA-F
COI06181511G	6-18	full	1.5	11	1.80	-30+70	5	CH10	SMA
COI06060320-02	6.57-6.87	full	0.3	20	1.15	-	10	-	SMA-M
COI07080520K	7-8	full	0.5	20	1.20	-20+60	5	19 X 13 X 12.7	SMA-F
COI07181012-01	7.8-18	full	1.0	12	1.70	-40+85	10	23 X 15 X 10	SMA-F
COI08110620-01	8-11	full	0.4	22	1.20	-30+70	20	20 X 13 X 12	SMA-F
COI08110620-02	8-11	full	0.4	22	1.20	-45+85	20	31.1 X 20 X 13	SMA-F
COI08120520G	8-12	full	0.5	20	1.25	-30+70	10	CH11	SMA
COI08120518-01	8-12	full	0.5	18	1.30	-30+75	50	19 X 13 X 12.7	SMA-M/F
COI08120520G	8-12	full	0.5	20	1.25	-25+40	20	20 X 12 X 13	SMA-F
COI08120520G-02	8-12	full	0.5	20	1.25	-	25	-	-
COI08120520G-03	8-12	full	0.5	20	1.25	-40+85	3.2	20 X 12 X 13	SMA-F
COI08120520G-04	8-12	full	0.5	20	1.25	-40+85	5	20 X 13 X 12	SMA-F
COI08120520G-05	8-12	full	0.5	20	1.25	-40+70	10	20 X 12 X 13	SMA-F



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COI08120520G-06	8-12.4	full	0.5	20	1.25	-40+70	25	20 X 13 X 12	SMA-F
COI08120520D	8-12.4	full	0.5	20	1.25	-30+85	25	-	SMA-F
COI08180816G	8-18	full	0.8	16	1.45	-25+40	20	-	SMA-F
COI08180817G	8-18	full	0.8	17	1.40	-30+70	5	CH12	SMA
COI08100321	8.4-10.2	full	0.3	21	1.20	-54+71	20	26 X 19 X 17	N-F
COI08090425-01	8.6-9.6	full	0.4	23	1.20	-40+80	10	20 X 13 X 12	SMA-F
COI09090325CS	9.2-9.6	full	0.3	25	1.20	-	5	-	SMA-F
COI09090627-01	9.2-9.6	full	0.6	27	1.25	-20+50	5	20 X 13 X 12	SMA-F
COI10130520-01	10-13	full	0.5	20	1.25	-30+70	20	31.1 X 20 X 13	SMA-F
COI10150520G1	10-15	full	0.5	20	1.25	-30+70	5	CH11	SMA
COI12120320-01	12-12.25	full	0.3	20	1.20	-30+85	10	20 X 13 X 12	SMA-F
COI12120320-02	12-12.5	full	0.3	20	1.20	-30+85	10	20 X 13 x 12	SMA-F/M
COI12120420-01	12-12.5	full	0.4	20	1.20	-30+75	20	19 X 12.7 X 13	SMA-F
COI12180520D	12-18	full	0.5	20	1.25	-	15	-	SMA-F
COI12180620G	12-18	full	0.6	20	1.30	-	5	-	SMA-F
COI12180618	12-18	full	0.6	18	1.35	-30+70	20	20 X 12 X 13	SMA-F
COI12180618G	12-18	full	0.6	18	1.40	-30+70	20	12X20X13	SMA
COI12180618G-01	12-18	full	0.6	18	1.35	-	20	-	N-M/F
COI12180718G	12-18	full	0.7	18	1.30	-	5	-	K-F
COI12150420	12.4-15	full	0.4	20	1.25	-	-	-	SMA-M/F
COI14180618	14-18	full	0.6	18	1.35	-30+70	25	20 X 12 X 13	SMA-F
COI15180420-01	15-18	full	0.4	20	1.25	-	-	-	SMA-F
COI16180618-01	16-18.5	full	0.6	18	1.35	-20+70	20	20 X 13 X 12	SMA-F
COI18260818D	18-26.5	full	0.8	18	1.40	-20+65	5	12.7X17.8X12.7	SMA
COI18402109D	18-40	full	2.1	9	2.10	-20+65	5	17.8 X12.7X12.7	K-F
COI18180421G	18.1-18.3	full	0.4	21	1.20	-40+65	1	21.8 X 12 X 13.6	2.92-M/F
COI19210421G	19.2-21.2	full	0.4	21	1.20	-40+65	1	21.8 X 12 X 13.6	2.92-M/F
COI20300620D	20-30	full	0.7	18	1.40	-20+65	5	-	K-F
COI20300718D	20-30	full	0.7	18	1.25	-20+65	5	-	K-F
COI26280520G	26-28	full	0.5	20	1.30	-	5	-	K-F
COI26401014D	26.5-40.0	full	1.0	14	1.50	-20+65	5	12.7X17.8X12.7	K-F
COI27310620D	27-31	full	0.6	20	1.25	-20+65	5	17.8 X12.7X12.7	K-F
COI27290619	27-29.5	full	0.6	19	1.25	-40+70	2	21.8 X 13.6 X 12	K-F
COI28280420	28	full	0.4	20	1.25	-40+70	1	21.8 X 13.6 X 12	2.92-M/F



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COI28300819	28-30	full	0.8	19	1.25	-	1	-	2.92-F
COI29310523G	29-31	full	0.5	23	1.20	-	2	-	K-F
COI31330620D	31-33	full	0.6	20	-	-	-	-	K-F
COI34360820-01	34-36	full	0.8	20	1.28	-40+80	1	18.8 X 9.65 X 12.7	K-F
COI40421520	40-42	full	1.5	20	1.50	-10+60	1	14.3 X 8.12 X 13	2.4-F
COI40420120-01	40-42.3	full	1.6	20	1.50	-	1	-	2.92-F
COI43430119	43-43.5	full	1.5	19	1.55	-	1	-	2.4F

CIRCULATORS:

Model No.	Freq. Range (GHz)	Band Width (MHz)	Insert. Loss (dB Max)	Iso (dB Min)	VSWR (Max)	Op.Temp. Range (°C)	Pwr (W)	Size LXWXH (mm)	Conn. Type
COC01020715G	1-2	full	0.7	15	1.40	0+60	20	CH13	SMA
COC01020716G	1-2	full	0.7	16	1.40	0+60	100	66X64X26	SMA-F
COC01020617G	1.35-2.7	full	0.6	17	1.35	0+60	20	CH14	SMA
COC01020717G	1.50-2.5	full	0.7	17	1.35	-30+70	20	CH15	SMA
COC02040617-01	2-4	full	0.6	17	1.35	0+60	60	34 X 32 X 21	SMA-F
COC02040616	2-4	full	0.6	16	1.40	-30+70	50	34 X 32 X 18	SMA-F
COC02040616G	2-4	full	0.6	16	1.40	-	10	34 X 32 X 18	SMA-F
COC02040618G	2-4	full	0.6	18	1.40	-30+70	20	CH16	SMA
COC02060715D	2-6	full	0.8	14	1.50	-	20	40X41X17	SMA-F
COC02060812D	2-6	full	0.8	12	1.50	-40+70	20	30.5x30.5x15	SMA-F
COC02081709D	2-8	full	1.75	9	2.10	0+50	20	41.2X40.1X17.8	SMA-F
COC02081709-01	2-8	full	1.75	9	2.10	-10+70	20	41.2X40.1X17.8	SMA-F
COC02020520G	2.1-2.5	full	0.5	20	1.25	-25+40	20	25 X 25 X 15	SMA-F
COC02020323G	2.3-2.4	full	0.3	23	1.20	-30+70	100	-	-
COC02020420G	2.3-2.5	full	0.4	20	1.25	-30+70	100	-	-
COC02020420-03	2.35-2.55	full	0.4	20	1.20	-	300	-	N
COC02030520	2.6-3.4	full	0.5	20	1.25	-	100	-	SMA-F
COC02030420N	2.7-3.3	full	0.4	20	1.25	-	100	-	N-F
COC02030420-01	2.9-3.1	full	0.4	20	1.25	-30+75	300	28.5 X 25.4 X 15	SMA-F
COC03040418	3-4	full	0.4	18	1.30	0+70	10	28 X 25.4 X 14	SMA-F
COC03060616G	3-6	full	0.6	16	1.40	-30+70	20	CH17	SMA
COC03030322R	3.1-3.3	full	0.35	22	1.17	-40+85	20	26.5 X 26.5 X 17	SMA-F



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COC03030420G	3.1-3.4	full	0.5	20	1.25	-	200	40 X 40 X 30	N-F
COC03030323G1	3.4-3.6	full	0.3	23	1.20	-	100	-	
COC04060618G	4-6	full	0.6	18	1.30	-	10	21 X 16 X 14	SMA-F
COC04080420	4-8	full	0.4	20	1.25	-10+60	20	-	SMA-F
COC04080518-01	4-8	full	0.5	18	1.35	0+60	50	22.5 X 21 X 15	SMA-F
COC04080618G	4-8	full	0.6	18	1.30	-30+70	10	CH18	SMA
COC04050520-01	4.4-5.5	full	0.5	20	1.25	-40+95	120	24 X 20 X 18	SMA-F
COC04050521-02	4.4-5.5	full	0.5	21	1.25	-40+95	120	20.8 X 14 X 16	SMA-F
COC05100618G	5-10	full	0.6	18	1.30	-30+70	10	CH18	SMA
COC05060420G	5.6-6	full	0.4	20	1.25	-30+75	100	28 X 25.4 X 14	SMA-F
COC06120616G	6-12	full	0.6	16	1.40	-30+70	10	CH19	SMA
COC06181414G	6-18	full	1.0	14	1.50	-40+70	10	20.5 X 16 X 13.6	SMA-F
COC06181511G	6-18	full	1.5	11	1.90	-30+70	10	CH20	SMA
COC08100517-01	8-10	full	0.5	17	1.35	-40+85	500	-	N-F
COC04080518-01	8-10	full	0.5	18	1.30	-35+75	50	22.5 X 21 X 15	SMA-F
COC08120520G	8-12	full	0.5	20	1.25	-30+70	10	CH21	SMA
COC08120520G-01	8-12	full	0.5	20	1.25	-	50	-	SMA-F
COC08120518	8-12	full	0.5	18	1.30	-30+70	25	19 X 13 X 12.7	SMA-F
COC08180616G	8-18	full	0.6	16	1.45	-	20	-	SMA-F
COC08180816G	8-18	full	0.8	16	1.50	-30+70	10	CH22	SMA
COC08090420-01	8.5-9.5	full	0.4	20	1.25	-20+85	200	19 X 13 X 12.7	SMA-F
COC08090520G	8.5-9.5	full	0.5	20	1.30	-20+85	200	19 X 15 X 13	SMA-F
COC08090520R	8.5-9.5	full	0.5	20	1.18	-40+85	400	20 X 20 X 14.5	SMA-F
COC08090520R-01	8.5-9.5	full	0.5	20	1.18	-40+85	250	-	SMA-F
COC08090423-01	8.6-9.6	full	0.4	21	1.20	-40+80	10	19 X 15 X 13	SMA-F
COC09110320-01	9-11	full	0.3	20	1.25	-	50	-	SMA-F
COC0911U520	9-11	full	0.5	20	1.25	-	20	19 X 15 X 13	SMA-F
COC09110520-02	9-11	full	0.5	20	1.25	-	50	-	SMA-F
COC09100420-01	9.5-10.5	full	0.4	20	1.25	-30+70	2	19 X 15 X 13	SMA-F
COC10150520G	10-15	full	0.5	20	1.25	-30+70	10	CH21	SMA
COC10110420-01	10.5-11.6	full	0.4	20	1.25	-	32	19 X 15 X 13	SMA-M/F
COC12180618G	12-18	full	0.6	18	1.35	-30+70	10	CH21	SMA

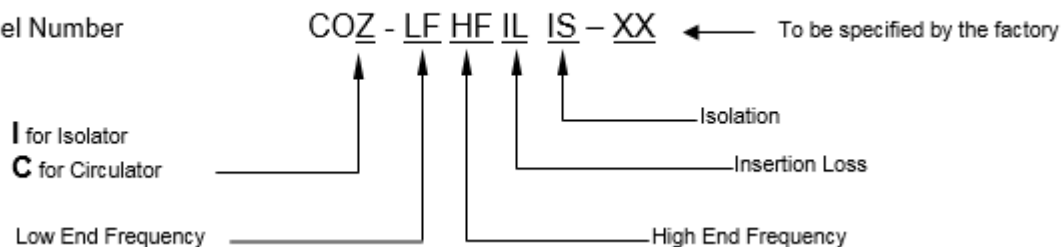
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COC13160520G	13-16	full	0.5	20	1.30	-40-+85	1	19 x 15 x 13	SMA-F
COC14150520G	14-15	full	0.5	20	1.25	-40-+85	30	19 X 15 X 13	SMA-F
COC17200717	17-20	full	0.7	17	1.40	-20-+65	10	19 X 15 X 13	SMA-F
COC17200422	17-22	full	0.4	22	1.20	-20-+65	10	-	SMA-F
COC18402109D	18-40	full	2.1	9	2.10	-20-+65	5	17.8X12.7X12.7	K-F
COC26290520	26.5-29.5	full	0.5	20	1.25	-	5	-	2.92-F
COC26401014D	26.5-40	full	1.0	14	1.5	-20-+65	5	-	K-F
COC272806100G	27.5-28.5	full	0.6	-	1.43	-40-+70	40	40 X 27 X 13	SMA-F
COC32362515R	32-36	full	2.5	15	1.50	-10-+60	1	80 X 80 X 28	SMA-F
COC33370718	33-37	full	0.7	18	1.25	-20-+65	5	-	K-F
COC37400718	37-40	full	0.7	18	1.35	-	5	-	2.92-F

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, specify COI02040520-XX.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

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