

Microstrip Line Isolators and Circulators

FEATURES:

- ❖ Frequency coverage: 2.0 to 40 GHz
- ❖ Broad bandwidth
- ❖ Low insertion loss and high isolation
- ❖ Single magnet and compact design

APPLICATIONS:

- ❖ Port isolation
- ❖ Module integration



CMI & CCM Series

DESCRIPTION:

Cernexwave's CMI and CCM series microstrip line isolators and circulators are offered to cover the frequency range of 2.0 to 40 GHz. These isolators and circulators are designed and manufactured to provide low insertion loss and high isolation for microstrip line based component and module integrations. The 50Ω input and output microstrip line configuration is immediately ready for circuit insertion. While the isolator is an important device where port isolation or VSWR is concerned, the circulator offers duplexing functions in many radar and communication systems. Two types of microstrip line isolators and circulators (substrate and on carrier styles) are offered for customers to choose from.

SPECIFICATIONS:

ISOLATORS:

Model No	Frequency Range (GHz)	Band Width (MHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Power (W)	Size L x W x H (mm)
CMI03040420H	3.7-4.0	Full	0.4	20	1.25	-30 to +70	10	23x 14 x 5.5
CMI05070520G	5.9-7.2	Full	0.5	20	1.35	-40 to +70	8	12x20x8.35
CMI06070820G	6.75-7.45	Full	0.8	20	1.3	-40 to +80	10	16.7 x 12.4 x 3.6
CMI07070520G	7-7.5	Full	0.5	20	1.25	-55 to +75	2	8x8x3.5
CMI07070820G	7.05-7.75	Full	0.8	20	1.3	-40 to +80	10	16.7 x12.4 x 3.6
CMI07080520G	7.1-8.5	Full	0.5	20	1.35	-40 to +70	8	10.2x17.2x5.1
CMI09100520G	9-10	Full	0.5	20	1.25	-40 to +70	2	6x7.5x4
CMI10100520G	10.5-10.9	Full	0.5	20	1.25	-30 to +65	2	7.1x13.2x5
CMI11120520G	11.9-12.2	Full	0.5	20	1.25	-40 to +70	2	6x7.5x4
CMI13140520G	13.9-14	Full	0.5	20	1.25	-40 to +70	2	6x7.5x4
CMI14150520G	14-15	Full	0.5	20	1.25	-55 to +75	2	6x7x4
CMI15150520G	15-15.6	Full	0.5	20	1.25	-40 to +70	2	8x8x4
CMI26401018G	26.5-40	2G	1.0	18	1.40	-40 to +70	4	5x5x3.5

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CIRCULATORS:

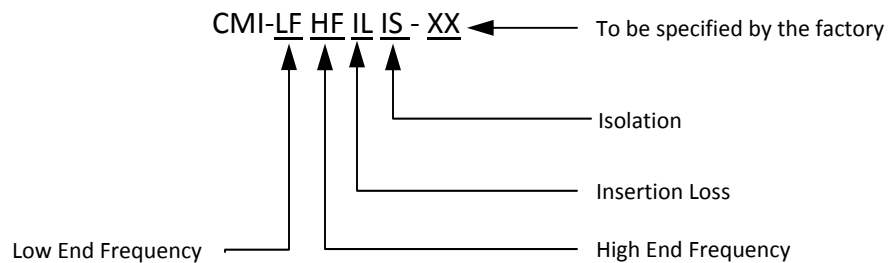
Model No	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Size L x W x H (mm)
CCM09110520G	9-11	Full	0.5	20	1.25	-40 to +70	8.2x8.2x0.5
CCM12130718	12-13.5	Full	0.6	18	1.35	-10 to +85	9.0 x 4.9 x 3.0
CCM14180618G	14-18	Full	0.6	18	1.40	-40 to +70	5x5x3.5
CCM15170520G	15-17	Full	0.5	20	1.30	-40 to +70	5x5x3.5
CCM19230815G	19.5-23	Full	0.8	15	1.40	-55 to +85	4.5x6x2

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

HOW TO ORDER CUSTOM PARTS:

ISOLATOR

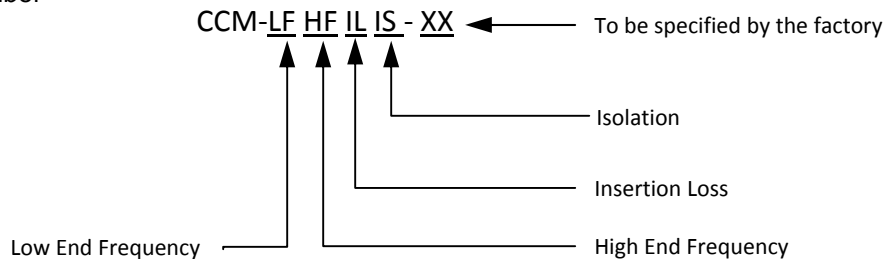
Specify Model



Example: To order a 7-7.5 GHz Microstrip Line Isolator with 0.5 dB maximum insertion loss and 20 dB minimum isolation, specify CMI-07070520G-XX.

CIRCULATOR

Specify Model Number



Example: To order a 9-11 GHz Microstrip Line Circulator with 0.5 dB maximum insertion loss and 20 dB minimum isolation, specify CCM-09110520G-XX.

CERNEXWAVE RESERVES THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE