

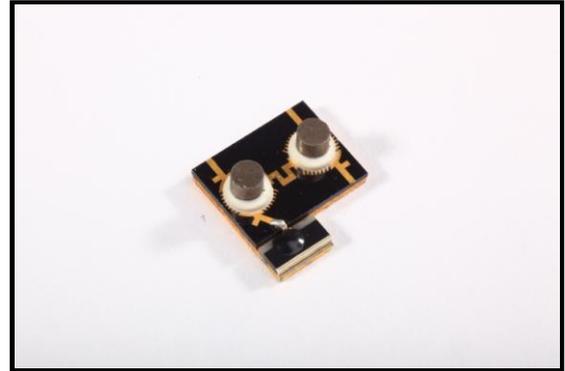
## Microstrip Dual-junction Circulators

### FEATURES:

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

### APPLICATIONS:

- ❖ Port isolations
- ❖ Module integrations



**CDCM Series**

### DESCRIPTION:

Cernex's CDCM series microstrip Dual-junction circulators are offered to cover the frequency range of 2.0 to 40 GHz. These circulators are designed and manufactured to provide low insertion loss and high isolation for microstrip line based component and module integrations. The 50  $\Omega$  input and output microstrip line configuration is immediately ready for circuit insertion. The circulator offers duplexing functions in many radar and communication systems. Microstrip Dual-junction circulators (substrate and on carrier styles) are offered for customers to choose from.

### SPECIFICATIONS:

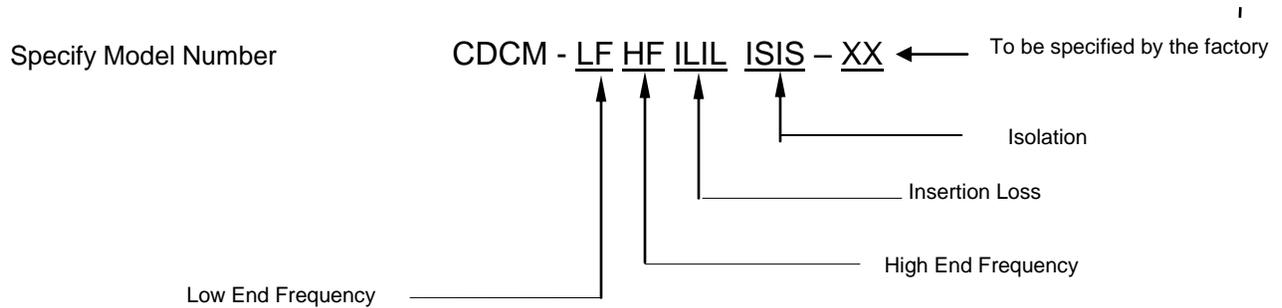
#### MICROSTRIP DUAL-JUNCTION CIRCULATORS:

Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. Range (°C)	Size LXWXH (mm)
CDCM050504081830G	5.2-5.8	full	0.4 (1-2) 0.8 (2-3)	18 (2-1) 30 (3-2)	1.30	-40-+70	13x14.5x5
CDCM081208131717G	8-12	full	0.8 (2-1) 1.3 (1-3)	17 (1-2) 17 (3-2) 30 (3-1)	1.30	-40-+70	10.5x11x4
CDCM090905102030H	9.0-9.6	full	0.5 (2-1) 1.0 (1-3)	20 (1-2) 30 (3-1)	1.25	-40-+85	12 x9 x3
CDCM111205081836G	11.9-12.2	full	0.5 (1-2) 0.8 (2-3)	18 (2-1) 36 (3-2)	1.30	-40-+70	12x7.5x4
CDCM161705102030H	16.3-17.2	full	0.5 (2-1) 1.0 (1-3)	20 (1-2) 20 (2-3) 20 (3-2) 30 (3-1)	1.25	-40-+85	6.5 x 6 x 3

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

## Microstrip Dual-junction Circulators

---



**Example:** To order a 8-12 GHz Microstrip Dual-junction Circulator with 0.8 (2-1), 1.3 (1-3) dB maximum insertion loss and 17 (1-2), 17 (3-2) dB minimum isolation, specify CDCM-081208131717G-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE