

SMT Microstrip Isolators and Circulators

FEATURES:

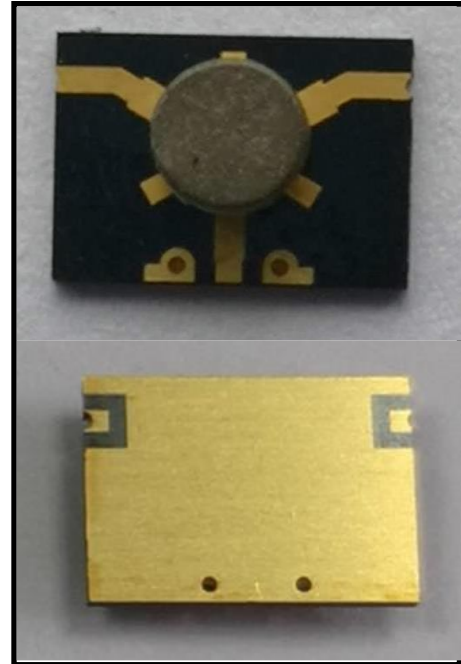
- ❖ Frequency coverage: 2 GHz to 30 GHz
- ❖ Relative bandwidth 30% max
- ❖ Low insertion loss and high isolation
- ❖ Single magnet and compact design

APPLICATIONS:

- ❖ Port isolation
- ❖ Circuit Protection

DESCRIPTION:

Cernexwave's CMIS and CCMS SMT microstrip isolators and circulators are offered in different frequency bandwidths from 2 to 30 GHz. These isolators and circulators are designed and manufactured to provide low insertion loss and high isolation for microstrip based component and module integrations. All 3 ports have wrap around solder pads at the bottom for surface mount connections. The 50Ω input/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.



CMIS & CCMS Series

SPECIFICATIONS:

ISOLATORS:

Model No	Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Power (W)
CMIS05060420	5.6-6.0	0.4	20	1.20:1	-55°C - +85°C	15
CMIS10120620	10.7-12.7	0.6	20	1.30:1	-55°C - +85°C	20
CMIS17180520	17.5-18.5	0.5	20	1.25:1	-55°C - +85°C	20
CMIS17191118	17.7-19.7	1.1	18	1.30:1	-30°C - +70°C	1
CMIS21231118	21.2-23.6	1.1	18	1.30:1	-30°C - +70°C	1
CMIS25271118	25.2-27	1.1	18	1.30:1	-30°C - +70°C	1



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CIRCULATORS:

Model No	Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Power (W)
CCMS03040716	3.0-4.5	0.7	16	1.35:1	-55°C - +85°C	20
CCMS04061020	4.9-6.0	1.0	20	1.25:1	-55°C - +85°C	20
CCMS09090420	9.3-9.5	0.4	20	1.25:1	-55°C - +85°C	20
CCMS12130718	12-13.5	0.7	18	1.30:1	-55°C - +85°C	20
CCMS12130718G	12-13.5	0.7	18	1.30:1	-40°C - +95°C	10
CCMS12130518	12-13.5	0.5	18	1.30:1	-40°C - +95°C	10
CCMS 12140718	12-14	0.7	18	1.30:1	-40°C - +95°C	10
CCMS15170816	15-17	1.2	16	1.35:1	-55°C - +85°C	15
CCMS15190715	15-19	0.7	15	1.35:1	-40°C - +85°C	4
CCMS15190715-01	15-19	0.7	15	1.35:1	-40°C - +85°C	4
CCMS15190715-02	15-19	0.7	15	1.35:1	-40°C - +85°C	4
CCMS17180520	17.5-18.5	0.5	20	1.25:1	-55°C - +85°C	20
CCMS17191118	17.7-19.7	1.1	18	1.30:1	-30°C - +70°C	1
CCMS21231118	21.2-23.6	1.1	18	1.30:1	-30°C - +70°C	1
CCMS25271118	25.2-27	1.1	18	1.30:1	-30°C - +70°C	1

NOTE: OTHER FREQUENCIES ARE AVAILABLE UPON REQUEST. PLEASE CONTACT THE FACTORY WITH YOUR SPECIAL REQUIREMENTS.