SMT Isolators and Circulators

FEATURES:

- Frequency coverage: UHF to 18 GHz
- Relative bandwidth 30% max
- Low insertion loss and high isolation
- Single magnet and compact design

APPLICATIONS:

- Port isolation
- Circuit Protection

CSC & CSI Series

DESCRIPTION:

Cernexwave's CSC and CSI series SMT isolators and circulators are offered to cover the frequency range of UHF to 18 GHz. These isolators and circulators are designed and manufactured to provide low insertion loss and high isolation for SMT component and module integrations. The 50Ω input and output SMT 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 SMT isolators and circulators are offered for customers to choose from.

SPECIFICATIONS:

ISOLATORS:

Model No	Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Power (W)
CSIU8U80714	.824-.849	0.7	14		-40°C - +85°C	
CSIU9U90320-01	.91-.92	0.35	20	1.25:1	-40°C - +85°C	2000
CSI02020518	2.4-2.5	0.5	18	1.30:1	-40°C - +85°C	5
CSI02020515	2.2-2.4	0.5	15	1.30:1	-40°C - +85°C	
CSI02020420	2.7-2.9	0.4	20	1.25:1	-40°C - +85°C	10
CSI08100616	8-10.25	0.6	16	1.35:1	-40°C - +85°C	50
CSI09100420	9.85-10.3	0.4	20	1.35:1	-40°C - +85°C	
CSI1110320	11-11.5	0.35	20	1.35:1	-40°C - +85°C	

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CIRCULATORS:

Model No	Frequency Range (GHz)	Insertion Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp (°C)	Power (W)
CSC01010518-01	1.0-2.0	0.5	18	1.3:1	-40°C - +85°C	60
CSC01020416-01	1.98-2.51	0.4	16	1.35:1	-40°C - +85°C	
CSC02020221K	2.3-2.4	0.25	21	1.2:1	-40°C - +85°C	30
CSC02020225-01	2.3-2.4	0.25	25		-40°C - +85°C	
CSC02020225-02	2.3-2.4	0.25	25		-40°C - +85°C	
CSC02020225-03	2.3-2.4	0.25	25		-40°C - +85°C	
CSC02020225-04	2.3-2.4	0.25	25		-40°C - +85°C	
CSC03030321-01	3.1-3.5	0.35	21			100
CSC03030322	3.3-3.5	0.3	22		-40°C - +85°C	30
CSC03030322-01	3.25-3.45	0.3	22		-40°C - +85°C	30
CSC03030322-02	3.5-3.65	0.3	22		-40°C - +85°C	30
CSC03030418-01	3.05-3.5	0.4	18		-40°C - +85°C	30
CSC03030418-XX	3.05-3.5	0.4	18	1.3:1	-40°C - +85°C	30
CSC03040520-YY	3.9-4.3	0.5	20		-40°C - +85°C	10
CSC05060618	5.0-6.0	0.6	18		-40°C - +85°C	50
CSC08100616	8-10.25	0.6	16		-40°C - +85°C	50
CSC08100616-01	8-10.25	0.6	16		-40°C - +85°C	50
CSC08100618-01	8-10.25	0.6	18		-40°C - +85°C	50
CSC08100618CS	8.7-10.5				-40°C - +85°C	
CSC08100716-XX	8.7-10.5	0.7	16		-40°C - +85°C	
CSC08100718	8.7-10.5	0.7	18	1.3:1	-40°C - +85°C	10
CSC08100817	8.7-10.5	0.8	17	1.35:1	-40°C - +85°C	10
CSCS12130518	12-13.5	0.5	18		-40°C - +85°C	10
CSCS12130718G	12-13.5	0.7	18	1.3:1	-40°C - +85°C	10
CSCS12140718	12-14	0.7	18		-40°C - +85°C	10
CSCS15190715	15-19	0.7	15	1.35:1	-40°C - +85°C	4
CSCS15190715-01	15-19	0.7	15	1.35:1	-40°C - +85°C	4
CSCS15190715-02	15-19	0.7	15	1.35:1	-40°C - +85°C	4