

Narrowband Ferrite Junction Isolators and Circulators

FEATURES:

- ❖ Low Cost, High Quality
- ❖ Compact Size, Light Weight
- ❖ High Performance
- ❖ Wide Operation Temperature Range
- ❖ Common Wireless Communication Frequency Bands in 2 to 110 GHz range

APPLICATIONS:

- ❖ Load isolation
- ❖ Receiver input VSWR
- ❖ Transmitter output VSWR
- ❖ Transceiver Diplexers



CJI & CJC Series

SPECIFICATIONS:

Waveguide Band	K	WR-34	Ka	Q	U	V	E	W
Frequency Range (GHz)	18.0-26.5	22-33	26.5-40	33-50	40-60	50-75	60-90	75-110
Bandwidth (GHz min)	3.0	2.0	3.0	2.0	1.8	1.5	1.5	1.5
Waveguide Size	WR-42	WR-34	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Isolation (dB min)	20.0	20.0	20.0	20.0	15.0	15.0	15.0	15.0
Insertion Loss (dB max)	0.3	0.4	0.4	0.5	0.7	1.0	1.0	1.0
CW Power (W) F/B*	30/1.5	25/1.0	25/1.0	25/0.8	15/0.4	10/0.3	10/0.2	10/0.2
VSWR (max)	1.3:1	1.3:1	1.3:1	1.3:1	1.35:1	1.4:1	1.4:1	1.4:1

ISOLATORS:

Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. Range (°C)	Size LXWXH (mm)	Waveguide Type
*CJI04060323S	4.0-6.0	300	0.3	23	1.15	-20-+60	60X110X64	WR187
*CJI04050328G	4.4-5.0	300	0.3	28	1.08	0-+55	112X71X45	WR187
*CJI05070323S	5.0-7.0	300	0.3	23	1.15	-20-+60	50X100X62	WR159
*CJI05080325S	5.9-8.5	400	0.3	25	1.15	-20-+60	42X80X49	WR137
*CJI07100325S	7.1-10.0	600	0.3	25	1.15	-20-+60	36X65X48	WR112
CJI07080323G	7.7-8.4	full	0.3	23	1.20	-40-+80	36X75.5X48	WR112
*CJI08120230G	8.0-12.4	300	0.2	30	1.15	-40-+80	28X56X42	WR90
*CJI08120323G	8.0-12.4	1000	0.3	23	1.20	-40-+80	28X56X42	WR90
*CJI08120423S	8.2-12.0	400	0.4	23	1.20	-20-+60	12.7X48.5X42	WR90



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Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. Range (°C)	Size LXWXH (mm)	Waveguide Type
*CJI09120425G	9.0-12.4	300	0.4	25	1.20	-40-+80	12.7X48.5X42	WR90
*CJI09120520G	9.0-12.4	1000	0.5	20	1.25	-40-+80	12.7X48.5X42	WR90
CJI10110420G	10.0-11.0	full	0.4	20	1.15	0-+70	70X42X42	WR90
*CJI10140423S	10.0-14.0	400	0.4	23	1.20	-20-+60	12.7X48X38	WR75
*CJI10160325G	10.0-16.0	300	0.3	25	1.20	-40-+80	12.7X43X38	WR75
*CJI10160225G	10.0-16.0	500	0.25	25	1.15	-40-+80	25X52X38	WR75
*CJI10160323G	10.0-16.0	1000	0.3	23	1.20	-40-+80	25X52X38	WR75
*CJI12170423S	12.0-17.0	400	0.4	23	1.20	-20-+60	9.5X38X33	WR62
*CJI12180325G1	12.4-18.0	500	0.3	25	1.15	-40-+80	12.7X38.3X33.3	WR62
*CJI12180325G2	12.4-18.0	500	0.3	25	1.15	-40-+80	21X52X33.3	WR62
*CJI12180323G	12.4-18.0	1000	0.3	23	1.20	-40-+80	21X52X33.3	WR62
*CJI14220325G	14.5-22.0	1000	0.3	25	1.20	-40-+80	15X40X33.3	WR51
*CJI17260520G	17.6-26.7	2000	0.5	20	1.25	-40-+80	12.7X31.75X22.4	WR42
*CJI17260418G	17.6-26.7	2000	0.4	18	1.30	-40-+80	9.5X31.75X22.4	WR42
*CJI18260423S	18.0-26.0	1000	0.4	23	1.20	-20-+60	12.7X29X22	WR42
*CJI18260328G	18.5-26.5	500	0.3	28	1.15	-40-+80	12.7X32X22.4	WR42
*CJI18260423G	18.5-26.5	1000	0.4	23	1.20	-40-+80	12.7X32X22.4	WR42
*CJI21330323G	21.7-33.0	1000	0.3	23	1.20	-40-+80	12.7X32X21.1	WR34
*CJI26400325G	26.5-40.0	1000	0.3	25	1.20	-40-+80	10X28X19.1	WR28
*CJI26400420G1	26.5-40.0	2000	0.4	20	1.25	-40-+80	10X28X19.1	WR28
*CJI26400420G2	26.5-40.0	3000	0.4	20	1.25	-40-+80	12.7X31.75X19.1	WR28
*CJI26400520G	26.5-40.0	1000	0.5	20	1.20	-40-+80	5X25.4X19.1	WR28
*CJI26400423S	26.5-40.0	2000	0.4	23	1.20	-20-+60	10X28X19	WR28
*CJI32500625G	32.9-50.1	1000	0.6	25	1.20	-40-+80	10X26X19.1	WR22
*CJI32500623G	32.9-50.1	2000	0.6	23	1.25	-40-+80	10X26X19.1	WR22
*CJI39590625G	39.2-59.6	1000	0.6	25	1.20	-40-+80	10X25.5X19.1	WR18
*CJI39590623G	39.2-59.6	2000	0.6	23	1.25	-40-+80	10X25.5X19.1	WR18
*CJI60910623G	60.5-91.9	500	0.6	23	1.20	-40-+80	12.7X23X19.1	WR14
*CJI60911020G	60.5-91.9	1000	1.0	20	1.25	-40-+80	12.7X23X19.1	WR14
*CJI841000825G	84.0-100.0	1000	0.8	25	1.25	-40-+80	10X22X19.1	WR10
*CJI841001020G	84.0-100.0	2000	1.0	20	1.30	-40-+80	10X22X19.1	WR10

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

*THE SPECIFICATIONS FOR THESE MODELS ARE ONLY FOR THE SPECIFIED FREQUENCY BW.



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Y-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)	Waveguide Type
*CJC04060323S	4.0-6.0	300	0.3	23	1.15	-20-+60	100X108X64	WR187
*CJC05070323S	5.0-7.0	300	0.3	23	1.15	-20-+60	90X91X62	WR159
*CJC05080325S	5.9-8.5	400	0.3	25	1.15	-20-+60	70X70X49	WR137
*CJC07100325S	7.1-10.0	600	0.3	25	1.15	-20-+60	60X59X48	WR112
CJC07080325G	7.7-8.4	full	0.3	25	1.15	-40-+80	60X65X47.8	WR112
*CJC08120323G	8.0-12.4	1000	0.3	23	1.15	-40-+80	48X53X42	WR90
*CJC08120235G	8.0-12.4	100	0.2	35	1.10	-40-+80	27X46.5X42	WR90
*CJC08120325G	8.0-12.4	500	0.3	25	1.15	-40-+80	27X46.5X42	WR90
*CJC08120325S	8.2-12.0	1000	0.3	25	1.15	-20-+60	46X53X42	WR90
*CJC10140323S	10.0-14.0	1000	0.3	25	1.15	-20-+60	44X52X38	WR75
*CJC10160228G	10.0-16.0	300	0.2	28	1.10	-40-+80	42X48X38	WR75
*CJC10160325G	10.0-16.0	1000	0.3	25	1.15	-40-+80	42X48X38	WR75
*CJC12170325S	12.0-17.0	1000	0.3	25	1.15	-20-+60	38X38X33	WR62
*CJC12180325G	12.4-18.0	500	0.3	25	1.15	-40-+80	40X40X33.3	WR62
*CJC12180423G	12.4-18.0	1000	0.4	23	1.20	-40-+80	40X40X33.3	WR62
*CJC14220323G	14.5-22.0	1000	0.3	23	1.20	-40-+80	32X35X30.2	WR51
*CJC18260423S	18.0-26.0	1000	0.4	23	1.20	-20-+60	25X28X22	WR42
*CJC18260420G1	18.5-26.5	2000	0.4	20	1.25	-40-+80	22.2X31.75X22.4	WR42
*CJC18260420G2	18.5-26.5	2000	0.4	20	1.25	-40-+80	24X27X22.4	WR42
*CJC18260323G	18.5-26.5	1000	0.3	23	1.20	-40-+80	24X27X22.4	WR42
*CJC21330323G	21.7-33.0	1000	0.3	23	1.20	-40-+80	22.3X27X21.2	WR34
*CJC26400320G1	26.5-40.0	1000	0.3	20	1.25	-40-+80	8X16X23	WR28
*CJC26400320G2	26.5-40.0	1000	0.3	20	1.25	-40-+80	10X24.5X19.1	WR28
*CJC26400325G	26.5-40.0	500	0.3	25	1.15	-40-+80	10X24.5X19.1	WR28
*CJC26400323G	26.5-40.0	1000	0.3	23	1.20	-40-+80	15X25.4X19.1	WR28
*CJC26400423S	26.5-40.0	2000	0.4	23	1.20	-20-+60	20X25X20	WR28
*CJC32500623G	32.9-50.1	1000	0.6	23	1.20	-40-+80	19X20X19.1	WR22
*CJC32500620G	32.9-50.1	2000	0.6	20	1.25	-40-+80	19X20X19.1	WR22
*CJC39590623G1	39.2-59.6	1000	0.6	23	1.20	-40-+80	10X24.5X19.1	WR18
*CJC39590620G1	39.2-59.6	2000	0.6	20	1.25	-40-+80	10X24.5X19.1	WR18
*CJC39590623G2	39.2-59.6	1000	0.6	23	1.20	-40-+80	19X19.1X19.1	WR18
*CJC39590620G2	39.2-59.6	2000	0.6	20	1.25	-40-+80	19X19.1X19.1	WR18
*CJC60910620G	60.5-91.9	500	0.6	20	1.25	-40-+80	12.7X23X19.1	WR14
*CJC60911018G	60.5-91.9	1000	1.0	18	1.30	-40-+80	12.7X23X19.1	WR14



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*CJC841000823G	84.0-100.0	1000	0.8	23	1.20	-40-+80	10X25X19.1	WR10
*CJC841001018G	84.0-100.0	2000	1.0	18	1.30	-40-+80	10X25X19.1	WR10

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UNI JUNCTION CIRCULATORS:

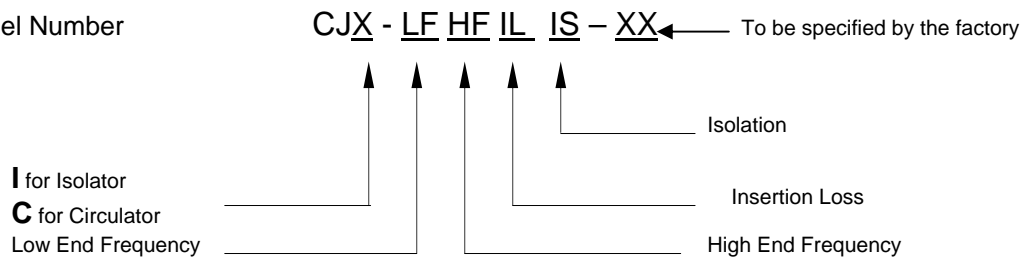
Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB Max)	Isolation (dB Min)	VSWR (Max)	Operating Temp. Range (°C)	Size LXWXH (mm)	Waveguide Type
*CJC26400323G1	26.5-40.0	1000	0.3	23	1.20	-40-+80	10X30.2X9.9	WR28
*CJC26400420G1	26.5-40.0	2000	0.4	20	1.25	-40-+80	10X30.2X9.9	WR28
*CJC26400323G2	26.5-40.0	1000	0.3	23	1.20	-40-+80	18X39.1X19.1	WR28
*CJC26400420G2	26.5-40.0	2000	0.4	20	1.25	-40-+80	18X39.1X19.1	WR28

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HOW TO ORDER:

Specify Model Number



Example: To order a 1.8-2.0 GHz isolator with 0.3 dB maximum insertion loss and 20 dB minimum isolation and, specify CJI-01020320-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

