

# Circulators/Isolators

## For Base-station, Waveguide Type

### CW Series

#### FEATURES

- A wide selection of types are available, covering many of the frequency bands allocated to satellite communication and maritime radar.



#### ELECTRICAL CHARACTERISTICS

Part No.		Frequency range (GHz)	Isolation (dB) min.	Insertion loss (dB) max.	VSWR max.	Maximum handling power (W)	Capacity of built-in dummy load	Dimensions (mm) L×W×T	Temperature range (°C)	Weight (g)	Waveguide (Flange)
Circulator	Isolator										
3J321		2.9 to 3.1	20	0.3	1.2	100		167×140×84	-25 to +70	1400	WRJ-3 (BRJ-3)
CW200H*		A. 3.48 to 3.64 B. 3.7 to 4.2	20	0.3	1.2	15		111×90×62	-10 to +50	1000	WRJ-4 (BRJ-4)
	AW610H*	A. B.	20	0.3	1.2	15	1	161×90×62	-10 to +50	1300	WRJ-4 (BRJ-4)
CW200J		5.8 to 6.2	20	0.2	1.2	15		90×80×50	-20 to +50	650	WRJ-6 (BRJ-6)
CW200C5		A. 5.9 to 6.4 B. 6.4 to 7.2 C. 7.1 to 7.8 D. 7.7 to 8.3	25	0.2	1.12	10		76.5×83×50	-20 to +50	320	WRJ-7 R-70 (BRJ-7)
	AW610C5	A. B. C. D.	25	0.2	1.12	10	10	96.5×83×50	-20 to +50	380	
CW200N		A. 7.7 to 8.3 B. 8.1 to 8.5	25	0.2	1.12	10		59×70×48	-20 to +50	220	WRJ-9 (BRJ-9)
	AW610N	A. B.	25	0.2	1.12	10	10	79×70×48	-20 to +50	320	
CW200X3		A. 8.8 to 9.8 B. 9.9 to 11.3 C. 10.6 to 11.8	23	0.35	1.15	10		51×44×42	-20 to +50	200	WRJ-10 (BRJ-10)
	AW610X3	A. B. C.	23	0.35	1.15	10	10	66×44×42	-20 to +50	230	
CW200U		A. 9.9 to 11.3 B. 10.5 to 11.9 C. 11.3 to 12.7 D. 11.9 to 13.3 E. 12.2 to 13.6	23	0.35	1.15	10		51×44×38	-20 to +50	150	WRJ-120 R-120 (BRJ-120)
	AW610U	A. B. C. D. E.	23	0.35	1.15	10	10	67×44×38	-20 to +50	180	
CW200U3		A. 10.5 to 11.9 B. 12.2 to 13.6	23	0.35	1.15	10		48×44×38	-20 to +50	110	WRJ-120 (BRJ-120)
	AW610U3	A. B.	23	0.35	1.15	10	10	63×44×38	-20 to +50	140	
CW200U5-Z8 AW620U5-A4 AW620U6-Z8 AW620U6-A4 AW620U7-Z8 ZW620U7-A4		14.0 to 14.5	20	0.2	1.2	5	0.5	44×25×38	-40 to +85	60	
		11.7 to 12.75	20	0.2	1.2	5	0.5	44×25×38	-40 to +85	60	WRJ-120 (BRJ-120)
		10.7 to 11.75	20	0.25	1.2	5	0.5	44×25×38	-40 to +85	65	
		12.0 to 14.0 B. 14.3 to 15.5	20	0.35	1.2	10		43×35×37.2	-20 to +50	120	WRJ-140 R-140 (BRJ-140)
CW200K		A. B.	20	0.35	1.2	10	10	58×35×37.2	-20 to +50	140	
	AW610K	A. B.	20	0.35	1.2	10	10	58×35×37.2	-20 to +50	140	
CW200P4		17.7 to 21.2	20	0.4	1.2	5		40×40×35	-10 to +50	110	WRJ-180 (BRJ-180)
	AW610P4	17.7 to 21.2	20	0.4	1.2	5	0.5	55×40×35	-10 to +50	160	
CW200R2		A. 17.7 to 19.7 B. 21.2 to 23.6	20	0.3	1.2	5		29.2×25.4×22.4	-40 to +70	50	WRJ-220 (BRJ-220)
	AW610R2	A. B.	20	0.3	1.2	5	1	39.2×25.4×22.4	-40 to +70	70	

- Isolators are unidirectional because a non-reflecting terminal is provided at the end of every circulator. In this case, the part No. is changed to AW610□.

\* Example Circulator : CW200H  
Isolator : AW610H

- TDK will be pleased to submit quotations on any customer's requirements which are not included in this data. Please contact our branch office or representative.

- All specifications are subject to change without notice.