

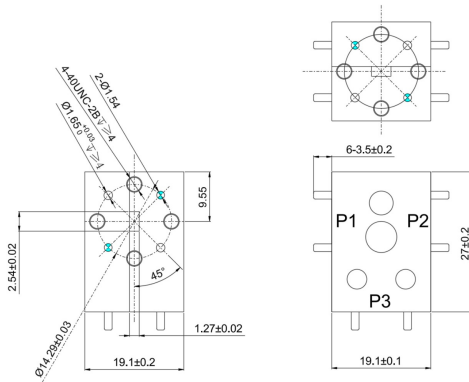
■ Waveguide Product



- Frequency range: 2.6GHz-110GHz.
- The relative advantages of waveguide devices are low loss, high power handling capacity, and high operating frequency. However, their relative disadvantage is the larger size due to flange-related issues of the waveguide interface.

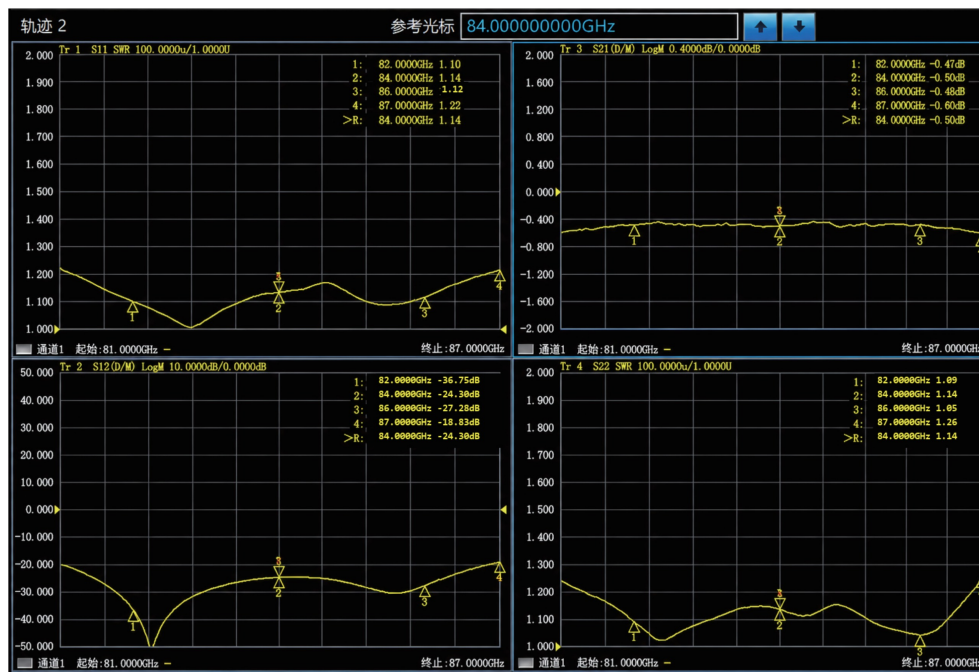
Waveguide Product

W Band 82~86GHz



The following products are waveguide circulators designed with the WR-8 (WG-28) standard waveguide interface. Below are some product examples and typical specifications. Customization of port locations and product dimensions is available based on your requirements.

Typical Performance Curve

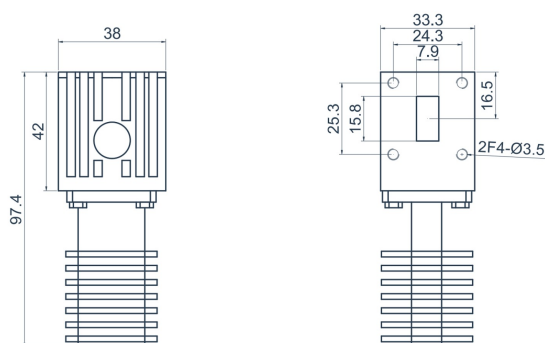


Electrical Performance Table

Model	Frequency (GHz)	BWMax	Insertion loss(dB)Max	Isolation (dB)Min	Return Loss MIN	Connector	Operating temperature (°C)	CWWRP (Watt)	Size(mm) L × W × H
HWCT820T860G	W Band(82.0~86.0)	Full	0.6	20	1.35	WR-10	-55~+85	10/5	27×19.1×19.1

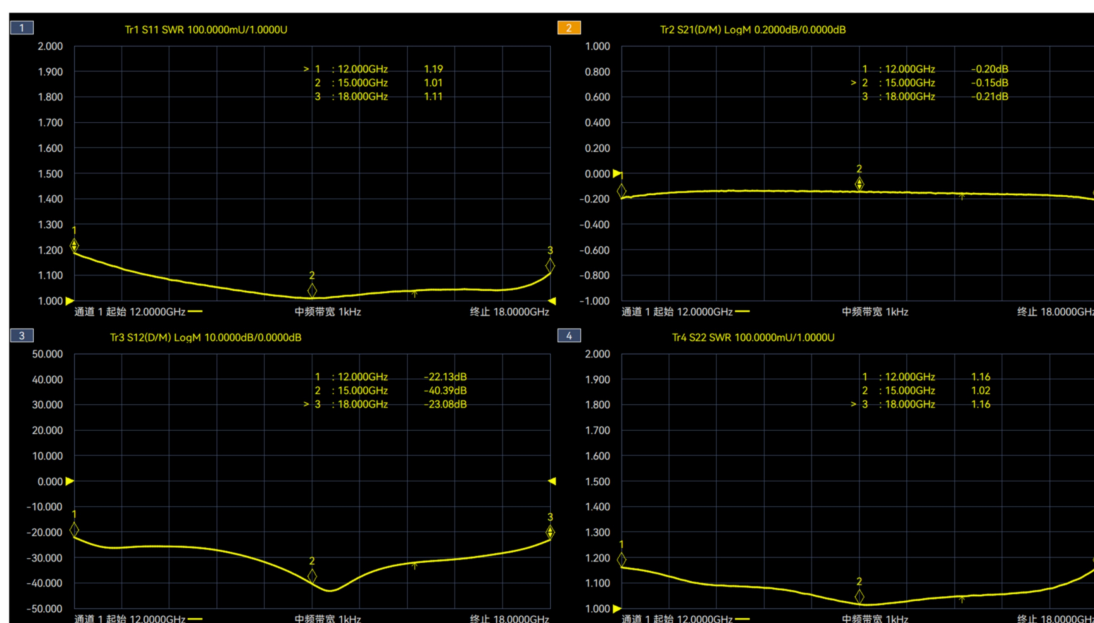
Waveguide Product

Ku Band 12~18GHz



The following products are waveguide Isolator designed with the WR-62 (WG-18) standard waveguide interface. Below are some product examples and typical specifications. Customization of port locations and product dimensions is available based on your requirements

Typical Performance Curve



Electrical Performance Table

Model	Frequency (GHz)	BWMax	Insertion loss(dB)Max	Isolation (dB)Min	VSWR Max	Connector	Operating temperature (℃)	CWRP (Watt)	Size(mm) L × W × H
HWIT120T180G	Ku Band(12.0~18.0)	Full	0.3	20	1.25	WR-62	-55~+85	300/100	97.4×38×33.3

Waveguide Product

Junction Waveguide Circulator

Model	Frequency (GHz)	BW Max	Insertion loss(dB)Max	Isolation (dB)Min	VSWR Max	Connector	Operating temperature (℃)	PK/CW (Watt)	Size (mm) L × W × H
HWCT82T125G	X Band (8.2~12.5)	Full	0.3	20	1.25	WR-90	-55~+85	100/100	53×48×42
HWCT120T180G	Ku Band(12.0~18.0)	Full	0.3	20	1.25	WR-62	-55~+85	-/300	42×38×33.3
HWCT160T180G	Ku Band(16.0~18.0)	Full	0.25	20	1.2	WR-51	-55~+85	-/250	38×33.3×33.3
HWCT180T265G	K Band(18.0~26.5)	Full	0.3	20	1.2	WR-42	-55~+85	100/100	30×28×22.4
HWCT220T330G	K Band(22.0~33.0)	Full	0.3	20	1.25	WR-34	-55~+85	-/200	30×30×22.4
HWCT265T400G	Ka Band(26.5~40.0)	Full	0.4	18	1.35	WR-28	-55~+85	-/100	21×25.9×19
HWCT420T460G	U Band (42.0~46.0)	Full	0.3	20	1.25	WR-22	-55~+85	-/30	28×30×19.1
HWCT620T650G	V Band(62.0~65.0)	Full	0.5	20	1.25	WR-12	-55~+85	-/10	25.5×19.1×19.1
HWCT700T760G	V Band(70.0~76.0)	Full	0.6	18	1.35	WR-12	-55~+85	-/10	25.5×19.1×19.1
HWCT850T890G	W Band(85.0~89.0)	Full	0.6	18	1.35	WR-12	-55~+85	-/10	25.5×19.1×19.1
HWCT920T960G	F Band (92.0~96.0)	Full	0.8	18	1.3	WR-8	-55~+85	-/2	18×8.5×7

Waveguide Product

Junction Waveguide Isolator

Model	Frequency (GHz)	BW Max	Insertion loss(dB)Max	Isolation (dB)Min	VSWR Max	Connector	Operating temperature (℃)	CW/RP (Watt)	Size(mm) L × W × H
HWIT82T125G	X Band(8.2~12.5)	Full	0.3	20	1.25	WR-90	-55~+85	500/100	93×48×42
HWIT120T180G	Ku Band(12.0~18.0)	Full	0.3	20	1.25	WR-62	-55~+85	300/100	97.4×38×33.3
HWIT180T265G	K Band(18.0~26.5)	Full	0.3	20	1.22	WR-42	-55~+85	200/50	70×28×22.4
HWIT217T330G	K/Ka Band(21.7~33.0)	15%	0.3	20	1.2	WR-34	-55~+85	200/30	60×30×22.4
HWIT265T400G	Ka Band (26.5~40.0)	Full	0.4	18	1.35	WR-28	-55~+85	100/50	59.9×25.9×19
HWIT330T500G	Q Band(33.0~50.0)	15%	0.4	18	1.3	WR-22	-55~+85	10/1	36.7×12.7×28.6
HWIT710T860G	V/W Band(71.0~86.0)	10%	1	18	1.4	WR-12	-55~+85	40/2	25.5×15×19.1
HWIT920T960G	F Band (92.0~96.0)	Full	0.6	20	1.25	WR-10	-55~+85	10/1	27×15×19.1

Miniaturized Waveguide Isolator

Model	Frequency (GHz)	BW Max	Insertion loss(dB)Max	Isolation (dB)Min	VSWR Max	Connector	Operating temperature (℃)	CW/RP (Watt)	Size(mm) L × W × H
HWIT127T133G-M	Ku Band (12.7~13.3)	Full	0.3	23	1.2	WR-62	-40~+80	5/0.5	38.3×12.7×33.3
HWIT130T150G-M	Ku Band(13.0~15.0)	Full	0.3	20	1.22	WR-62	-30~+65	2/1	50.8×35×34.1
HWIT177T197G-M	Ku Band(17.7~19.7)	Full	0.4	18	1.35	WR42	-40~+85	1/0.5	31.75×9.5×22.8
HWIT180T265G-M	K Band(18.0~26.5)	Full	0.5	16	1.3	WR42	-40~+70	10/10	38.1×22.2×22.2
HWIT212T236G-M	K Band(21.2~23.6)	Full	0.4	19	1.3	WR42	-40~+85	2/1	31.7×9.5×22.8
HWIT240T265G-M	K Band(24.0~26.5)	Full	0.35	18	1.3	WR42	-35~+85	2/1	31.7×9.5×22.8
HWIT270T295G-M	Ka Band(27.0~29.5)	Full	0.3	18	1.3	WR-28	-35~+70	10/10	40×22×19.1
HWIT310T334G-M	Ka Band(31.0~33.4)	Full	0.3	18	1.3	WR-28	-35~+70	10/10	40×22×19.1
HWIT370T400G-M	Ka Band(37.0~40.0)	Full	0.4	18	1.3	WR-28	-30~+70	10/10	40×22×19.1
HWIT265T400-M	Ka Band(26.5~40.0)	Full	0.45	15	1.35	WR-28	-40~+70	10/10	40×22×19.1
HWIT405T435G-M	Q Band(40.5~43.5)	Full	0.5	17	1.25	WR-22	-40~+80	1/1	34.5×12.7×30
				20	1.3		+20~+40		
HWITA405T435G-M	Q Band(40.5~43.5)	Full	0.4	18	1.29	WR-22	-40~+80	1/1	36.7×12.7×28.5

Waveguide Product

Electrical Performance Table

Standard Waveguide Port Models			Frequency Range (GHz)		BW		Electrical Performance			Power Capacity	Operating temperature
EIA	BS - British Standard	153-IEC	Starting Frequency (GHz)	Ending Frequency (GHz)	RBW (%)	ABW (GHz)	VSWR Max	Insertion loss (dB) Max	Isolation (dB)Min	CW(Watt)	℃
WR-90	WG-16	R100	8.2	12.5	10	-	1.15	0.2	23	500	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-75	WG-17	R120	9.84	15	10	-	1.15	0.2	23	400	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-62	WG-18	R140	11.9	18	10	-	1.15	0.2	23	300	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-51	WG-19	R180	14.5	22	10	-	1.15	0.2	23	250	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-42	WG-20	R220	17.6	26.7	10	-	1.15	0.2	23	250	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-34	WG-21	R260	21.7	33	10	-	1.15	0.2	23	200	-55~+85
					20		1.2	0.25	20		
					FULL		1.25	0.3	20		
WR-28	WG-22	R320	26.3	40	10	-	1.2	0.25	20	100	-55~+85
					FULL		1.35	0.4	18		
WR-22	WG-23	R400	32.9	50.1	-	4	1.25	0.3	20	30	-55~+85
						8	1.35	0.45	18		
WR-19	WG-24	R500	39.2	59.6	-	3	1.25	0.3	20	20	-55~+85
						6	1.35	0.5	18		
WR-15	WG-25	R620	49.8	75.8	-	3	1.25	0.3	20	15	-55~+85
						6	1.35	0.5	18		
WR-12	WG-26	R740	60.5	91.9	-	3	1.25	0.5	20	10	-55~+85
						6	1.35	0.6	18		
WR-10	WG-27	R900	73.8	112	-	3	1.3	0.6	18	5	-55~+85
						5	1.35	0.8	17		
WR-8	WG-28	R1200	92.2	140	-	3	1.3	0.7	18	2	-55~+85
						5	1.4	0.9	17		
WR-7	WG-29	R1400	113	173	-	3	1.35	0.8	18	2	-55~+85
						5	1.4	1	17		

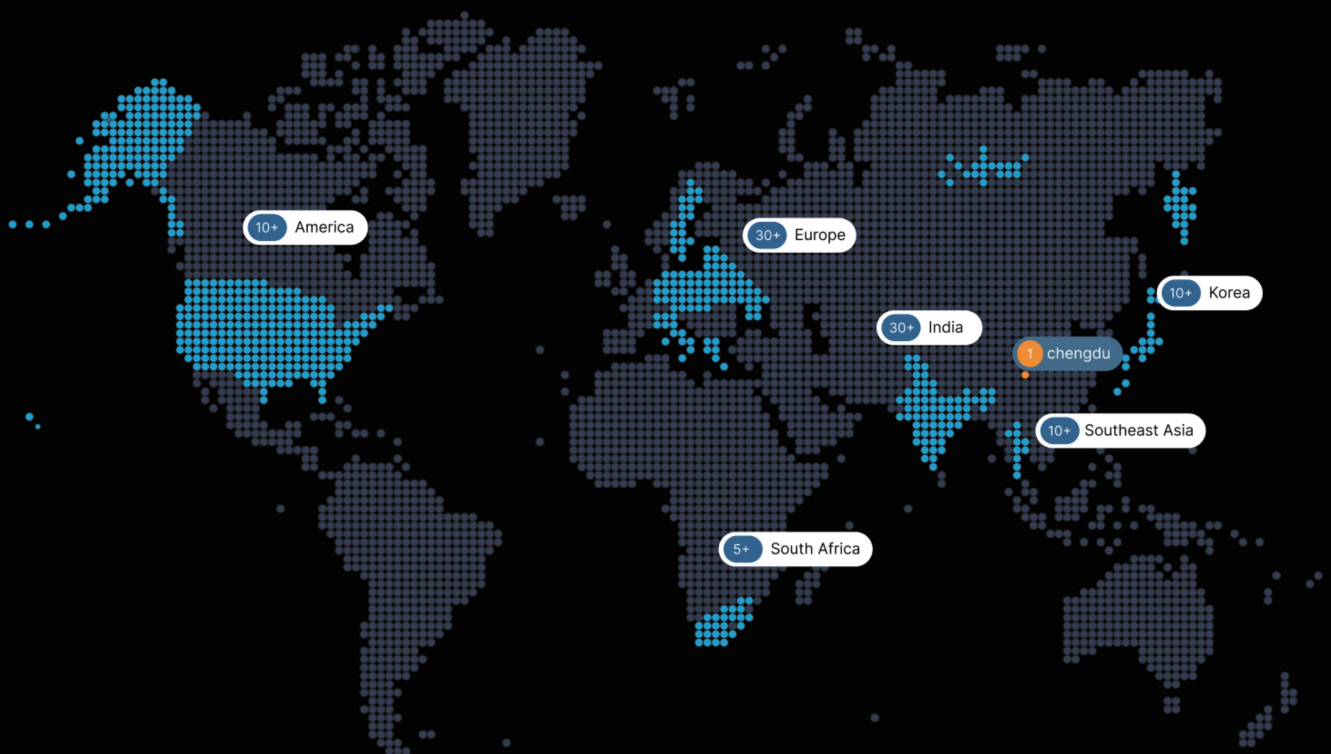
HzBeat Support

OEM

ODM

Dealership cooperation

Agency cooperation



Delivery times:

- 01** Standard product: Delivery within one week
- 02** Customized product: Delivery within 4 to 6 weeks



HzBeat



Company Add:
Building E, Phase 2,
Singapore Innovation Center,
Hexiang 1st Street, Shuangliu District,
Chengdu, China.

Factory Add:
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