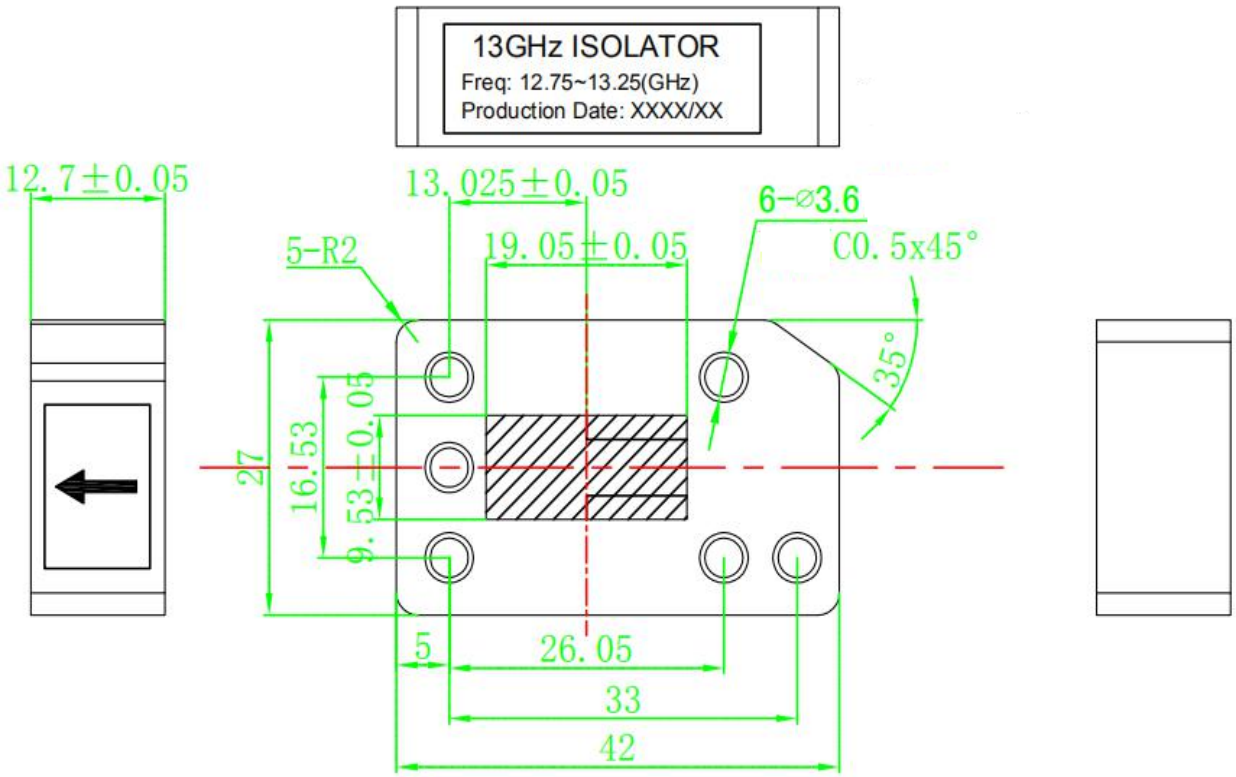
1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

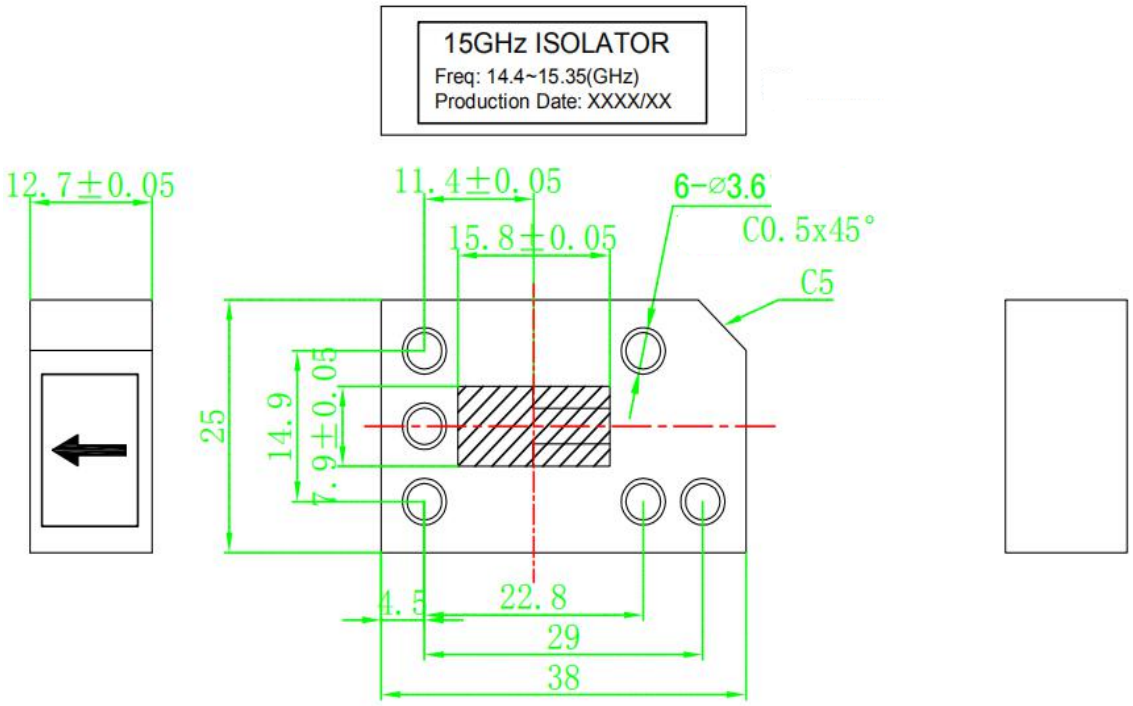
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG120-12.7A/12.75-13.25GHZ	12.750	13.250	13.0000	0.500	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

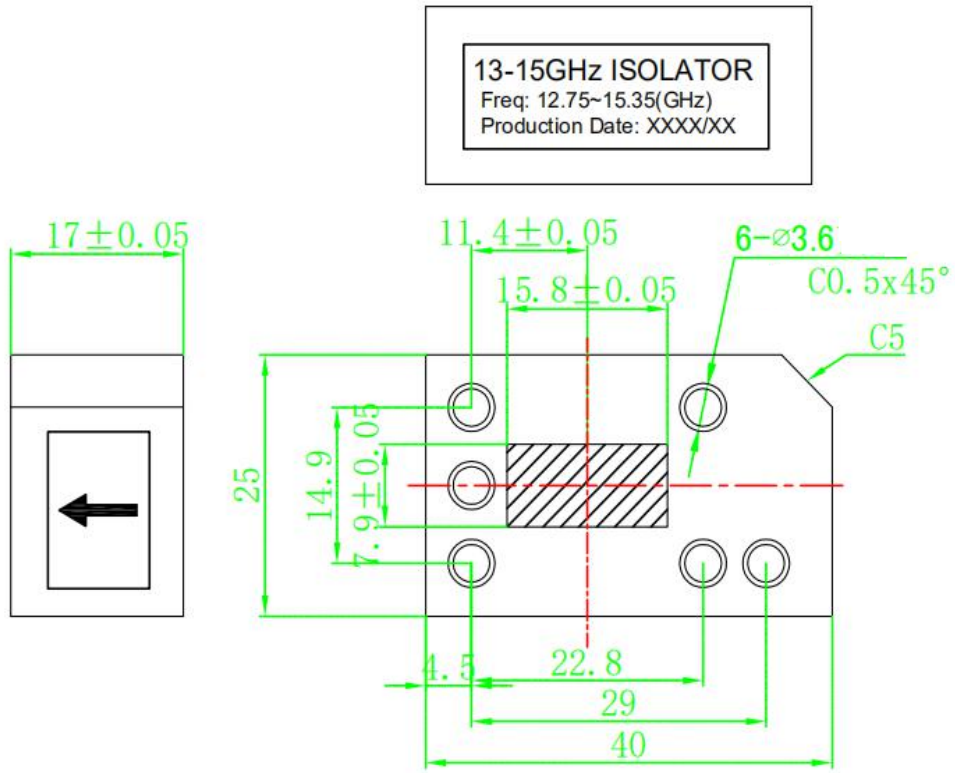
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG140-12.7A/14.4-15.35GHZ	14.400	15.350	14.8750	0.950	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

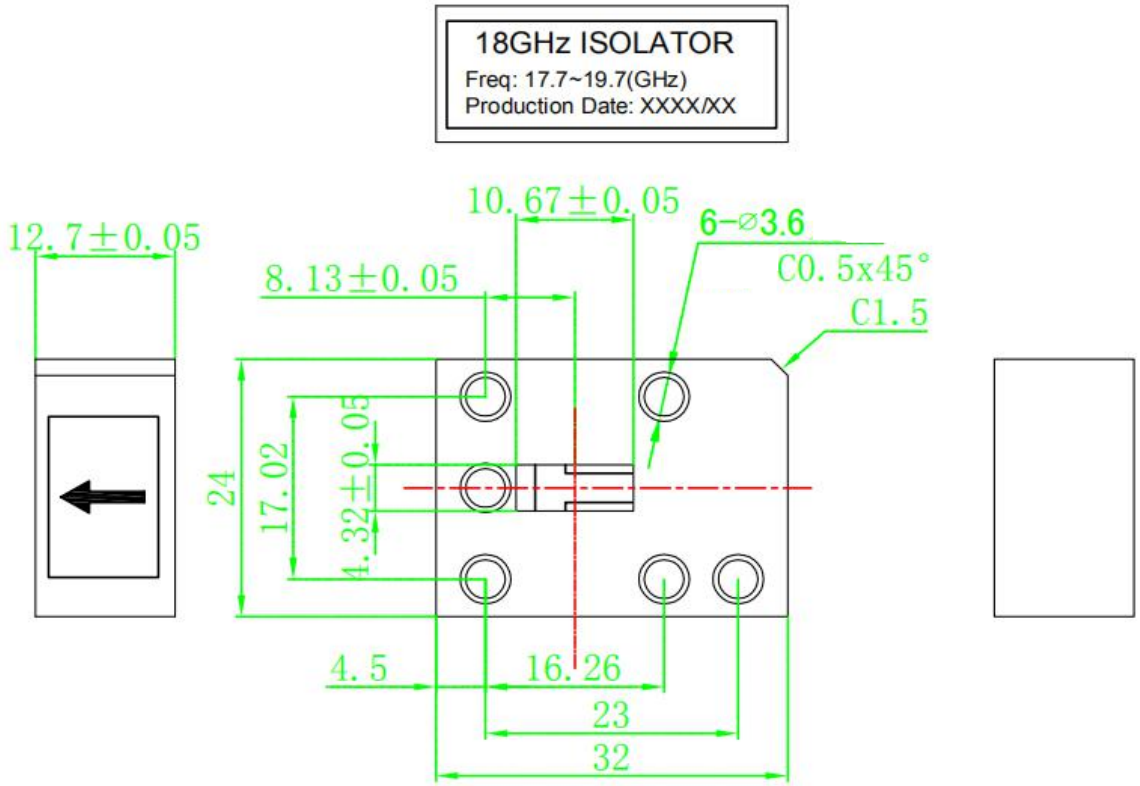
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG140-17A/12.75-15.35GHZ	12.750	15.350	14.0500	2.600	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

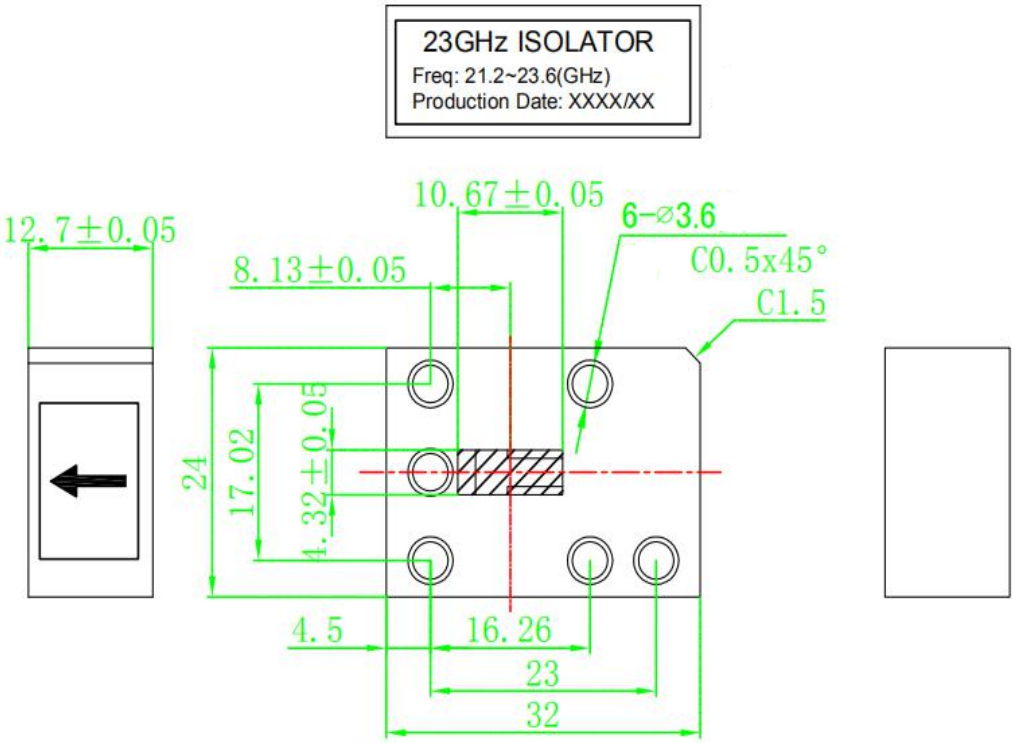
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG220-12.7A/17.7-19.7GHZ	17.700	19.700	18.7000	2.000	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

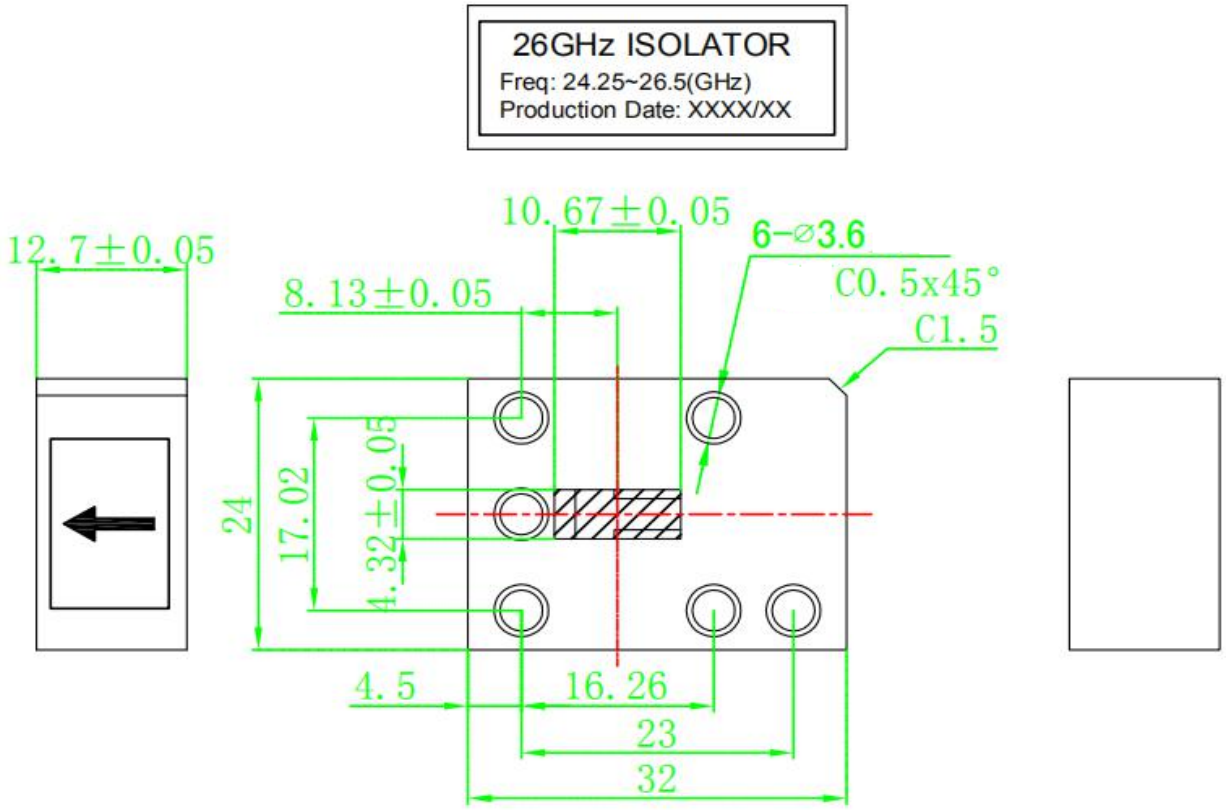
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG220-12.7A/21.2-23.6GHZ	21.200	23.600	22.4000	2.400	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

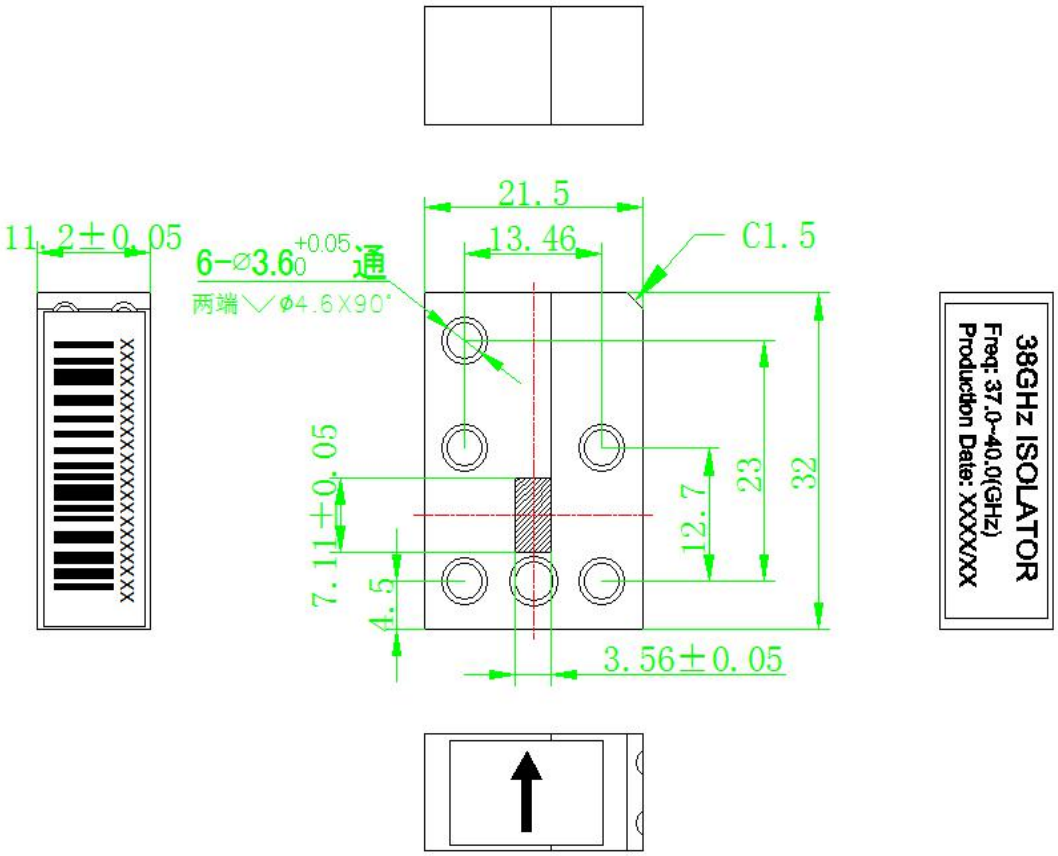
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG220-12.7A/24.25-26.5GHZ	24.250	26.500	25.3750	2.250	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

Unit:mm



3.Specifications

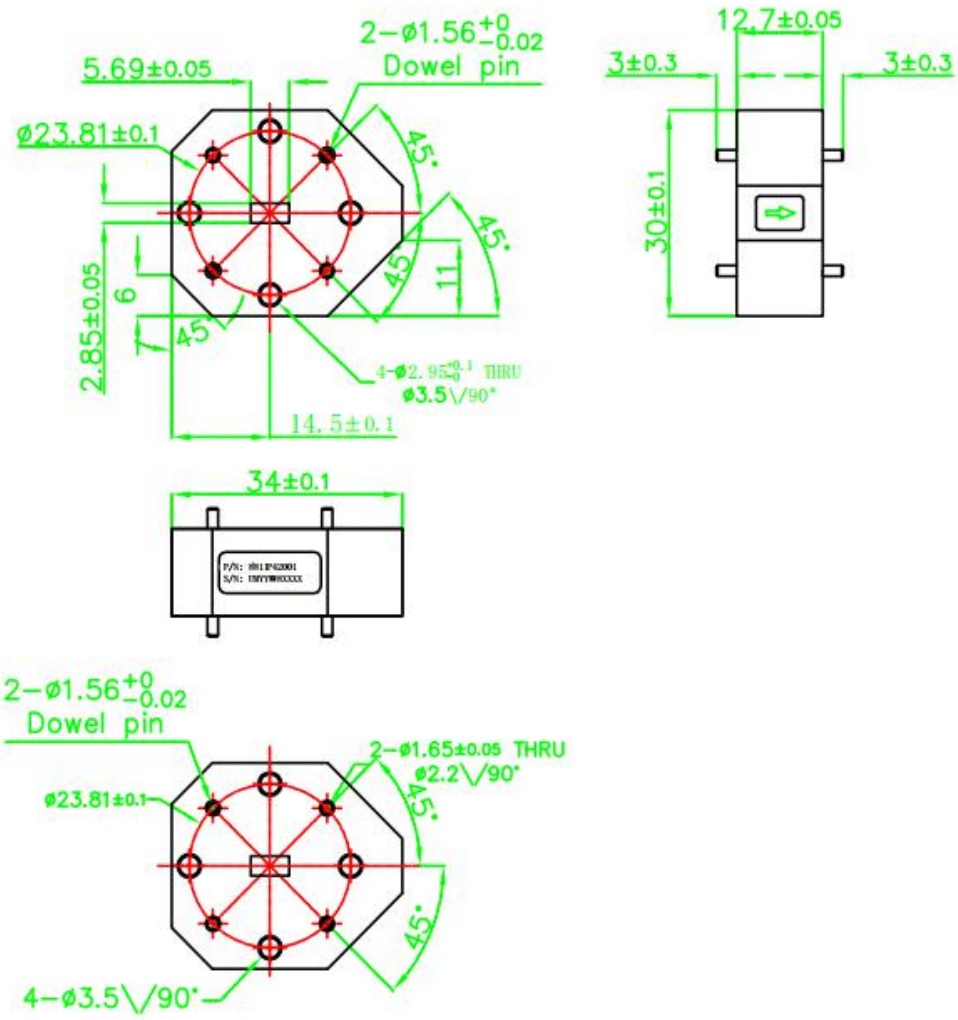
Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG320-11.2A/37-40GHZ	37.000	40.000	38.5000	3.000	20	0.4	1.22	10	

1.Features

Wide Operation Temperature Range -45 ~ 90℃

2.Dimensions

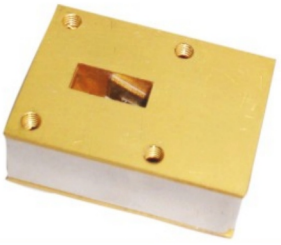
Unit:mm



3.Specifications

Part No.	Frequency (GHz)		Center Frequency	Bandwidth	Isolation	INS LOSS	VSWR	Power	IMD (@2X43dBm)
	F1	F2	(GHz)	(GHz)	(dB) MIN	(dB) MAX	MAX	(W)	(-dBc) MAX
BG400-12.7A/37-40GHZ	40.500	43.500	42.0000	3.000	18	0.4	1.28	10	

Waveguide Isolator

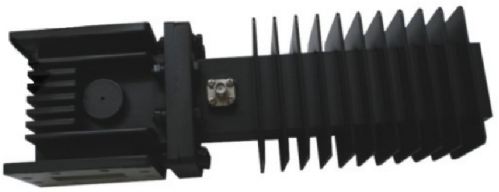


Waveguide Isolator

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	IL(dB)	Ioslation (dB)	Flange	Material
SH-14WISO...	WR650	1.13-1.73	≤5%	≤1.2	≤0.3	≥20	FDP	Al
SH-18WISO...	WR510	1.45-2.20	≤5%	≤1.2	≤0.3	≥20	FDP	Al
SH-22WISO...	WR430	1.72-2.61	≤5%	≤1.2	≤0.3	≥20	FDP	Al
SH-26WISO...	WR340	2.17-3.30	≤5%	≤1.2	≤0.3	≥20	FDP	Al
SH-32WISO...	WR284	2.60-3.95	≤5%	≤1.2	≤0.3	≥20	FDP	Al
SH-40WISO...	WR229	3.22-4.90	≤10%	≤1.2	≤0.3	≥20	FDP	Al
SH-48WISO...	WR187	3.94-5.99	≤10%	≤1.2	≤0.3	≥20	FDP	Al
SH-58WISO..	WR159	4.64-7.05	≤10%	≤1.2	≤0.3	≥20	FDP	Al
SH-70WISO...	WR137	5.38-8.17	≤10%	≤1.2	≤0.3	≥20	FDP	Al
SH-84WISO...	WR112	6.57-9.99	≤15%	≤1.2	≤0.3	≥20	FBP	Al
SH-100WISO...	WR90	8.2-12.5	≤15%	≤1.2	≤0.3	≥20	FBP	Al
SH-120WISO...	WR75	9.84-15.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
SH-140WISO...	WR62	11.9-18.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
SH-180wISO...	WR51	14.5-22.0	≤15%	≤1.2	≤0.3	≥20	FBP	Al
SH-220WISO...	WR42	17.6-26.7	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
SH-260WISO..	WR34	21.7-33.0	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
SH-320WISO...	WR28	26.5-40.0	≤15%	≤1.25	≤0.4	≥20	FBP	Cu
SH-400WISO...	WR22	32.9-50.1	≤5%	≤1.5	≤0.6	≥17	FUGP	Cu
SH-500WISO..	WR19	39.2-59.6	≤5%	≤1.5	≤0.6	≥15	FUGP	Cu
SH-620WISO...	WR15	49.8-75.8	≤5%	≤1.5	≤0.6	≥15	FUGP	Cu
SH-740WISO...	WR12	60.5-91.9	≤5%	≤1.5	≤0.8	≥15	FUGP	Cu
SH-900WISO...	WR10	73.8-112	≤5%	≤1.5	≤1.0	≥15	FUGP	Cu

Waveguide Isolator



High Power Waveguide Isolator

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	Ioslation (dB)	Avg Power (W)	Flange	Material
SH–14WHPIS0...	WR650	1.13–1.73	≤5%	≤1.2	≥20	≤2500	FDP	Al
SH–18WHPISO...	WR510	1.45–2.20	≤5%	≤1.2	≥20	≤2500	FDP	Al
SH–22WHPISO...	WR430	1.72–2.61	≤5%	≤1.2	≥20	≤2000	FDP	Al
SH–32WHPISO...	WR284	2.60–3.95	≤5%	≤1.2	≥20	≤2000	FDP	Al
SH–40WHPISO...	WR229	3.22–4.90	≤10%	≤1.2	≥20	≤1500	FDP	Al
SH–48WHPISO...	WR187	3.94–5.99	≤10%	≤1.2	≥20	≤1500	FDP	Al
SH–58WHPISO...	WR159	4.64–7.05	≤10%	≤1.2	≥20	≤1500	FDP	Al
SH–70WHPISO...	WR137	5.38–8.17	≤10%	≤1.2	≥20	≤500	FDP	Al
SH–84WHPISO...	WR112	6.57–9.99	≤15%	≤1.25	≥20	≤500	FBP	Al
SH–100WHPISO...	WR90	8.2–12.5	≤15%	≤1.25	≥20	≤300	FBP	Al
SH–120WHPISO...	WR75	9.84–15.0	≤15%	≤1.25	≥20	≤200	FBP	Al
SH–140WHPISO...	WR62	11.9–18.0	≤15%	≤1.25	≥20	≤200	FBP	Al
SH–180WHPISO...	WR51	14.5–22.0	≤15%	≤1.25	≥20	≤100	FBP	Al
SH–220WHPISO...	WR42	17.6–26.7	≤15%	≤1.25	≥20	≤80	FBP	Cu
SH–260WHPISO...	WR34	21.7–33.0	≤15%	≤1.25	≥20	≤80	FBP	Cu
SH–320WHPISO...	WR28	26.5–40.0	≤15%	≤1.25	≥20	≤50	FBP	Cu
SH–400WHPISO...	WR22	32.9–50.1	≤5%	≤1.35	≥17	≤3	FUGP	Cu
SH–500WHPISO...	WR19	39.2–59.6	≤5%	≤1.50	≥15	≤2	FUGP	Cu
SH–520WHPISO...	WR15	49.8–75.8	≤5%	≤1.50	≥15	≤1	FUGP	Cu
SH–740WHPISO...	WR12	60.5–91.9	≤5%	≤1.50	≥15	≤1	FUGP	Cu
SH–900WHPISO...	WR10	73.8–112	≤5%	≤1.50	≥15	≤1	FUGP	Cu

Waveguide Isolator

High Power Waveguide

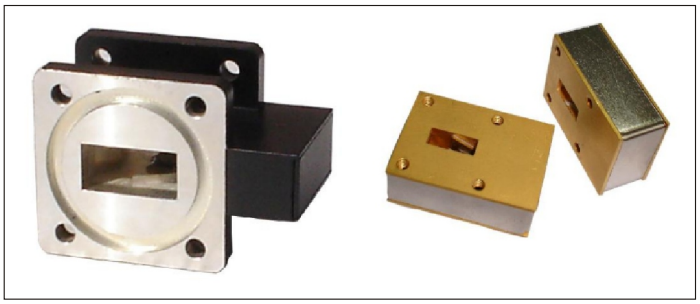
Differential Phase Shift Isolator

ELECTRICAL CHARACTERISTICS:

Part No.	WG Type EIA	Freq Range (GHz)	Working Bandwidth	VSWR	IL(dB)	Ioslation (dB)	Avg Power (W)	Flange	Material
SH-14WHPDPSI40KW	WR650	1.13-1.73	≤5%	≤1.2	≤0.3	≥20	40k	FDP	Al
SH-18WHPDPSI30KW	WR510	1.45-2.20	≤5%	≤1.2	≤0.3	≥20	30k	FDP	Al
SH-22WHPDPSI20KW	WR430	1.72-2.61	≤5%	≤1.2	≤0.3	≥20	20k	FDP	Al
SH-26WHPDPSI20KW	WR340	2.17-3.30	≤5%	≤1.2	≤0.3	≥20	20k	FDP	Al
SH-32WHPDPSI10KW	WR284	2.60-3.95	≤5%	≤1.2	≤0.4	≥20	10k	FDP	Al
SH-40WHPDPSI5KW	WR229	3.22-4.90	≤5%	≤1.2	≤0.4	≥20	5k	FDP	Al
SH-48WHPDPSI8KW	WR187	3.94-5.99	≤5%	≤1.2	≤0.4	≥20	8k	FDP	Al
SH-84WHPDPSI1200W	WR112	6.57-9.99	≤7%	≤1.25	≤0.4	≥20	1.2k	FBP	Cu
SH-100WHPDPSI1000W	WR90	8.2-12.5	≤7%	≤1.25	≤0.5	≥20	1k	FBP	Cu
SH-120WHPDPIC1000W	WR75	9.84-15.0	≤7%	≤1.25	≤0.5	≥20	1k	FBP	Cu
SH-140WHPDPSI800W	WR62	11.9-18.0	≤7%	≤1.25	≤0.5	≥20	800	FBP	Cu
SH-180WHPDPSI800W	WR51	14.5-22.0	≤7%	≤1.25	≤0.5	≥20	800	FBP	Cu

WAVEGUIDE ISOLATOR

Shinhom Microwave offers a standard product line of waveguide isolators ranging from WR10 to WR 137. For more information feel free to call us and discuss your needs with one of our sales engineers.



ELECTRICAL CHARACTERISTICS:

Part No.	Freq Range (GHz)	Operating Bandwidth (MHz)	VSWR (Max)	IL (dB) (Max)	Isolation (dB) (Min)	WG Type		Flange	Material
						IEC	EIA		
SH–70WISO	5.38–8.17	700	1.20	0.3	20	R70	WR137	FDP/FDM	Al/Cu
SH–84WISO	6.57–9.99	700	1.20	0.3	20	R84	WR112	FBP/FBM/FBE	Al/Cu
SH–100WISO	8.20–12.5	800	1.20	0.3	20	R100	WR90	FBP/FBM/FBE	Al/Cu
SH–120WISO	9.84–15.0	1000	1.20	0.3	20	R120	WR75	FBP/FBM/FBE	Al/Cu
SH–140WISO	11.9–18.0	1000	1.20	0.3	20	R140	WR62	FBP/FBM/FBE	Al/Cu
SH–180WISO	14.5–22.0	1000	1.20	0.3	20	R180	WR51	FBP/FBM/FBE	Al/Cu
SH–220WISO	17.6–26.7	2000	1.20	0.3	20	R220	WR42	FBP/FBM/FBE	Al/Cu
SH–260WISO	21.7–33.0	2000	1.20	0.3	20	R260	WR34	FBP/FBM/FBE	Al/Cu
SH–320WISO	26.3–40.0	2000	1.20	0.3	20	R320	WR28	FBP/FBM/FBE	Al/Cu
SH–400WISO	32.9–50.1	2000	1.30	0.6	20	R400	WR22	FUGP	Cu
SH–500WISO	39.2–59.6	2000	1.30	0.6	20	R500	WR19	FUGP	Cu
SH–620WISO	49.8–75.8	2000	1.30	0.6	20	R620	WR15	FUGP	Cu
SH–740WISO	60.5–91.9	2000	1.30	0.8	20	R740	WR12	FUGP	Cu
SH–900WISO	73.8–112	2000	1.30	1.0	20	R900	WR10	FUGP	Cu

Ordering Information

Example Part No: SH – 100 WISO

- SH – Shinhom Microwave
- 100 – WG type:R100
- WISO – Product Type:WG Isolator

- Flange type: Multiple types available – see Shinhom Microwave Flanges page
- Finish: Corrosion protection plus black/grey top coat