

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	39.2	~	59.6	GHz
IL			0.5	dB
Coupling	27.5	29	30.5	dB
Directivity	13	18		dB
Main line VSWR			1.15	
Coupled line VSWR			1.5	

Other parameters

Connector	Waveguide
Waveguide port	WR19orBJ500
Surface	Gold-plating
Power Capacity	500W Design assurance
Shell Material	Copper
Operation Temp.	-40~+70°C Design assurance

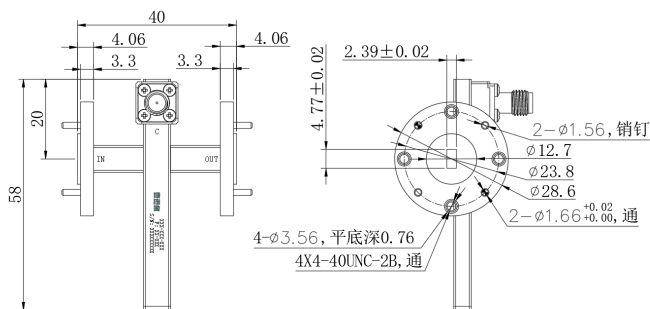
Port Definition

Input port	IN	FUGP500(UG-383/U)
Output port	OUT	FUGP500(UG-383/U)
Coupling port	C	2.4-F

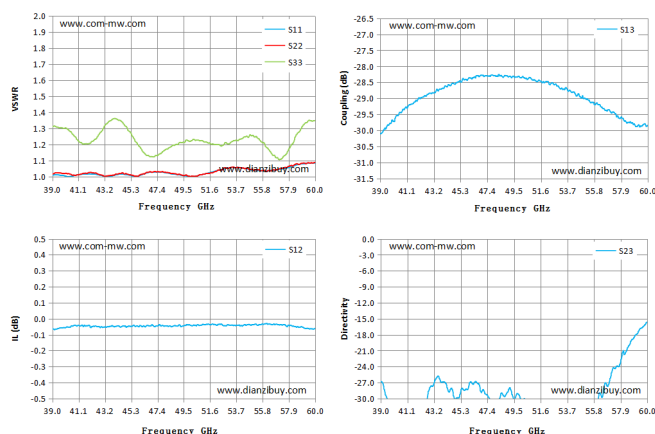
Reference picture



Configuration(mm)



Typical test curve



Note

- Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
- If the temperature is higher than 125°C, consult with us before ordering.

Typical test data

Frequency GHz	S11 VS WR	S22 VS WR	S33 VS WR	S1 2 IL dB	S13 cou plin g	S23 Dire ctivi ty
39.00	1.0 1	1.0 2	1.3 1	-0. 06	-30. 11	-26.8 0
40.50	1.0 0	1.0 2	1.2 8	-0. 05	-29. 45	-32.0 9
42.00	1.0 2	1.0 3	1.2 1	-0. 04	-29. 01	-38.7 4
43.50	1.0 0	1.0 1	1.3 4	-0. 05	-28. 75	-25.7 8
45.00	1.0 1	1.0 2	1.3 0	-0. 05	-28. 50	-29.8 5
46.50	1.0 2	1.0 3	1.1 4	-0. 05	-28. 36	-26.7 9
48.00	1.0 3	1.0 3	1.1 7	-0. 04	-28. 29	-30.5 0
49.50	1.0 1	1.0 1	1.2 2	-0. 04	-28. 32	-30.2 4
51.00	1.0 1	1.0 1	1.2 3	-0. 04	-28. 42	-34.9 5
52.50	1.0 4	1.0 4	1.1 9	-0. 03	-28. 52	-31.7 6
54.00	1.0 6	1.0 6	1.2 3	-0. 05	-28. 81	-35.5 7
55.50	1.0 4	1.0 4	1.2 4	-0. 04	-29. 13	-32.6 2
57.00	1.0 4	1.0 5	1.1 2	-0. 04	-29. 38	-26.9 7
58.50	1.0 7	1.0 8	1.2 6	-0. 05	-29. 75	-20.2 8
60.00	1.0 9	1.0 9	1.3 5	-0. 06	-29. 84	-15.6 4

Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.