

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	18	~	50	GHz
Gain	33			dB
Gain flatness			± 3	dB
Noise figure			5	dB
VSWR			2.5	
Spur reduction	60			dBc
P-1dB	14			dBm
PSAT	15			dBm

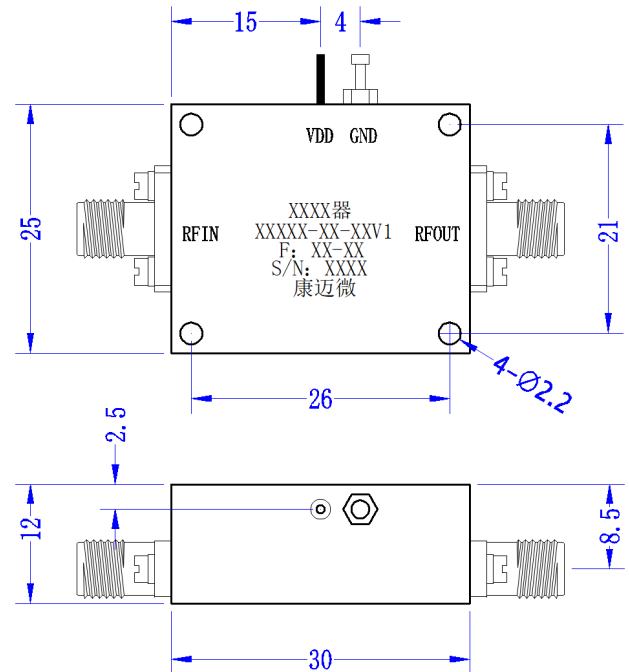
Other parameters

Connector	1.85-F Detachable
Connector material	Stainless steel
Impedance	50 Ω
Surface	Gold-plating
Working voltage	+12V
Working current	300mA
Operation Temp.	-40~+70°C Design assurance

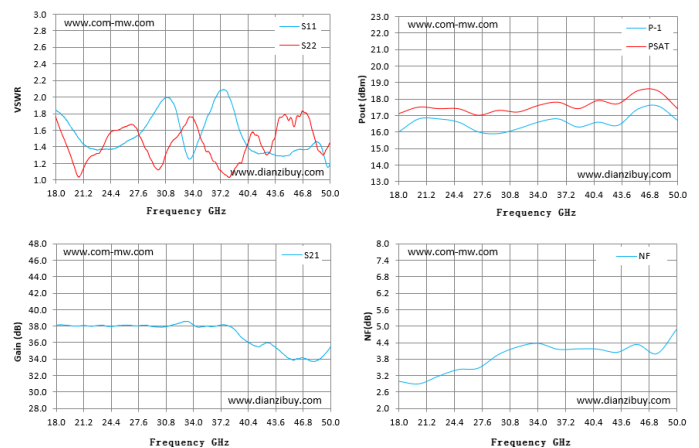
Reference picture



Configuration(mm)



Typical test curve



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

Typical test data

Frequency	S11	S22	GAIN	P-1	PSAT	NF
GHz	VS WR	VS WR	dB	dB m	dB m	dB
18	1.84	1.74	38. 10	16	17. 1	3
20.29	1.56	1.10	38. 02	16. 8	17. 5	2.9
22.57	1.37	1.31	38. 04	16. 8	17. 4	3.1 8
24.86	1.38	1.60	38. 02	16. 6	17. 4	3.4 2
27.14	1.51	1.65	38. 05	16	17	3.4 7
29.43	1.81	1.17	37. 92	15. 9	17. 3	3.9 6
31.71	1.92	1.48	38. 20	16. 2	17. 2	4.2 4
34	1.31	1.74	38. 13	16. 6	17. 6	4.3 7
36.29	1.91	1.23	37. 96	16. 8	17. 8	4.1 6
38.57	1.91	1.08	37. 79	16. 3	17. 4	4.1 7
40.86	1.35	1.57	35. 75	16. 6	17. 9	4.1 6
43.14	1.32	1.39	35. 76	16. 4	17. 7	4.0 5
45.43	1.32	1.75	33. 97	17. 4	18. 5	4.3 3
47.71	1.40	1.69	33. 75	17. 6	18. 5	4
50	1.21	1.44	35. 50	16. 7	17. 4	4.8 8

Note

Store in an environment with humidity less than 25%, pay attention to dust and static electricity prevention;

Consider amplifier heat dissipation during design;

Working or storage temperature less than 125 °C;

Clean the surface of the product, do not soak the product in cleaning solution for cleaning.