

Product features

Small-volume

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	150	~	1700	MHz
Gain	30			dB
Gain flatness		± 2		dB
Output VSWR			2.5	
Input VSWR			2	
P-1dB output power	30			dBm

Other parameters

Connector	SMA-K
Impedance	50 Ω
Surface	Nickel plating
Working voltage	+12V
Working current	400mA
Operation Temp.	-40~+70°C Design assurance

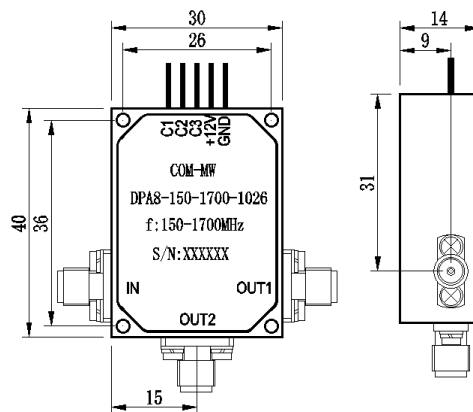
Other

1. IN-OUT1 straight band: frequency: DC-6000MHz;
Insertion loss ≤ 3 , VSWR ≤ 2 ;
2. IN-OUT2 straight band: frequency: DC-6000MHz;
Insertion loss ≤ 2 , VSWR ≤ 1.8 ;
3. Input port (input power 0dBm).
4. Please install it on a bottom plate that has the necessary heat dissipation conditions.

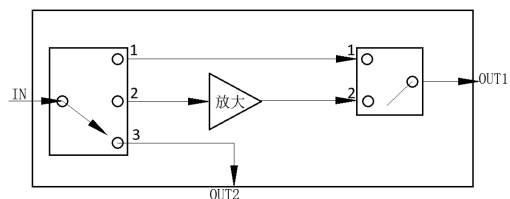
Reference picture



Configuration



Circuit diagram



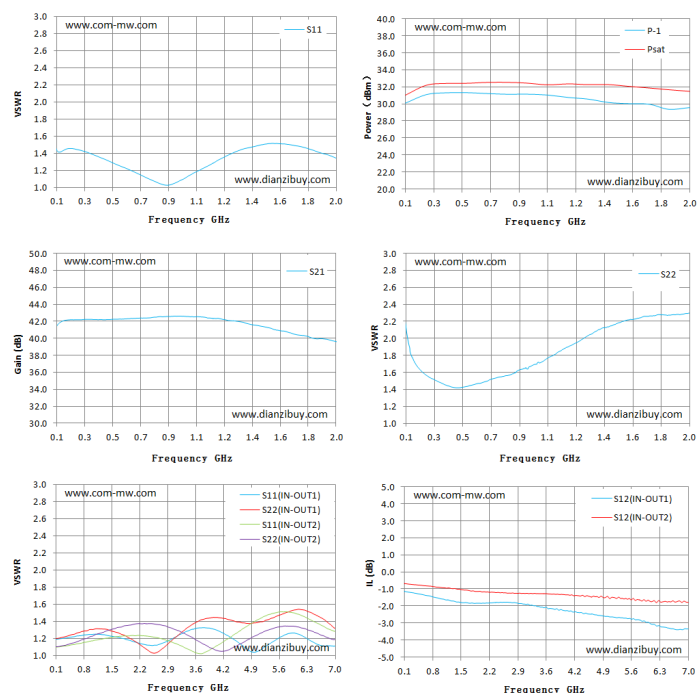
Truth table

C1	C2	C3	Channel	Note
0	0	1	IN-OUT1	Amplifier
0	1	0	IN-OUT1	Through
1	1	0	IN-OUT2	Through

Typical test data

Frequency GHz	S11V SWR	Gain(dB)	P-1(dBm)	Psat(dBm)	S22V SWR
0.1	1.44	41.4	30.08	31.02	2.12
0.24	1.45	42.18	31.09	32.19	1.56
0.37	1.37	42.2	31.3	32.4	1.45
0.51	1.27	42.24	31.32	32.42	1.44
0.64	1.17	42.36	31.22	32.52	1.5
0.78	1.06	42.5	31.13	32.53	1.56
0.91	1.06	42.61	31.14	32.44	1.64
1.05	1.19	42.53	31.04	32.24	1.77
1.19	1.32	42.34	30.75	32.35	1.9
1.32	1.42	42.02	30.56	32.26	2.03
1.46	1.49	41.52	30.16	32.26	2.14
1.59	1.52	41	30.03	32.06	2.22
1.73	1.49	40.43	29.96	31.86	2.26
1.86	1.43	39.95	29.36	31.66	2.27
2	1.35	39.63	29.57	31.47	2.3

Typical test curve



Note

Store in an environment with a humidity of less than 25%, pay attention to dust and anti-static measures, and consider amplifier heat dissipation during installation.