

Product features

Broadband /uploads/kmw-media/da8-11db1w-0.01-40g-9446/manual/DA8-11DB1W-0.01-40G-9446@2026-08-10-16-00-56.pdf step attenuator

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	Dc	~	40	GHz
Attenuation		11		dB
Attenuation step		1		dB
		±1.2		dB
Recurrence		0.05		dB
VSWR			2	

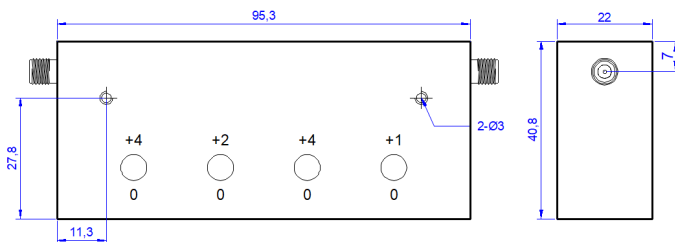
Other parameters

Power Capacity	1W Design assurance
Impedance	50Ω
Connector	2.4-F or K
Operation Temp.	-20~+70°C Design assurance
Storage Temp.	-55~+85°C Design assurance
Control	推动按钮选取所需 dB 值

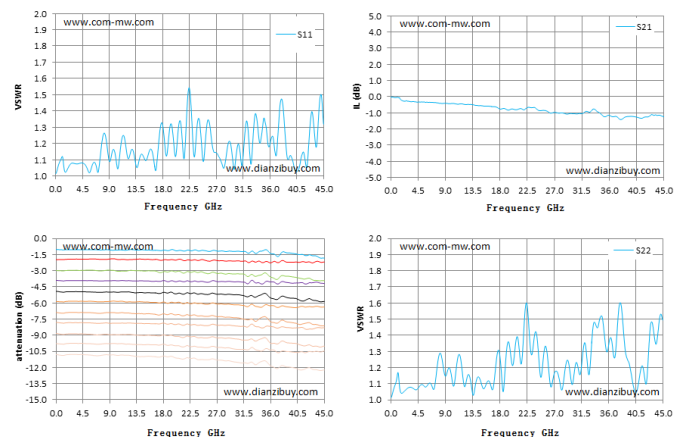
Reference picture



Configuration(mm)



Typical test curve



衰减控制定义

控衰减器内部包含四级，每级通过推动按钮，实现直通和衰减的切换。4级组合，可实现0-11dB的衰减

Attenuation dB	第一级 (+1/0)	第二级 (+4/0)	第三级 (+2/0)	第四级 (+4/0)
0.00	0	0	0	0
1.00	x	0	0	0
2.00	0	0	x	0
4.00	0	0	0	x
4.00	0	x	0	0

“x”指按钮推动到衰减位；

“0”指按钮推动到直通位。

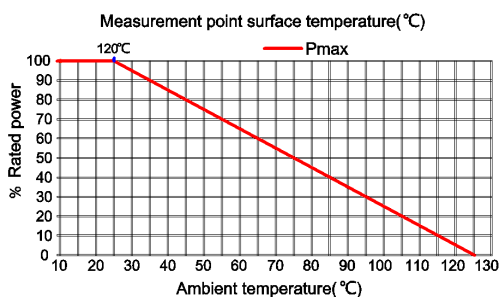
Typical test data

Frequency GHz	S1 1 VS WR	S2 1 IL dB	S2 2 VS WR	A- 1 d B	A- 4 d B	A-7 AT T. dB	A- 11 ATT dB
0.01	1.0 1	-0. 02	1.0 1	-1. 02	-3. 90	-6. 88	-10. 79
3.22	1.0 8	-0. 31	1.0 8	-1. 04	-3. 91	-6. 87	-10. 78
6.44	1.0 8	-0. 35	1.1 0	-1. 05	-3. 93	-6. 93	-10. 90
9.65	1.1 6	-0. 44	1.2 0	-1. 09	-3. 91	-6. 89	-10. 82
12.87	1.1 6	-0. 49	1.1 6	-1. 03	-3. 95	-6. 97	-10. 91
16.08	1.1 6	-0. 59	1.1 2	-1. 10	-3. 98	-7. 02	-10. 97
19.30	1.3 2	-0. 83	1.3 5	-1. 04	-3. 94	-6. 99	-10. 95
22.51	1.5 3	-0. 68	1.5 9	-1. 13	-4. 01	-7. 16	-11. 15
25.72	1.3 4	-0. 89	1.3 2	-1. 20	-4. 05	-7. 22	-11. 26
28.94	1.1 9	-1. 08	1.2 2	-1. 18	-3. 98	-7. 31	-11. 37
32.15	1.3 3	-0. 91	1.3 5	-1. 35	-4. 21	-7. 57	-11. 61
35.37	1.3 0	-1. 25	1.3 9	-1. 07	-3. 96	-7. 38	-11. 48
38.58	1.2 4	-1. 27	1.3 9	-1. 31	-4. 08	-7. 73	-11. 93
41.80	1.1 2	-1. 27	1.1 8	-1. 58	-4. 23	-7. 88	-12. 12
45.01	1.3 2	-1. 25	1.4 9	-1. 82	-4. 19	-8. 13	-12. 23

Note

1. The attenuator can only withstand a maximum power of 1W (CW), so do not input power exceeding 1W (CW) into the attenuator port at this time.
2. The programmable step attenuator port is a precision female connector that can only be connected to a matching connector. When connecting, attention should be paid to whether the size of the port to be connected meets the national standard requirements to avoid damaging the connector and affecting the device's specifications and service life. In addition, it is best to use a torque wrench when connecting and disconnecting connectors. Cover the connector with a dust cap when not in use to prevent excess material from entering the attenuator and affecting the performance indicators.
3. The programmable step attenuator is a non sealed attenuator, please store it in a dry and dust-free environment.

Power Derating Curve



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