

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	0.1	~	40	GHz
Attenuation range	0	~	63	dB
IL		13	16	dB
VSWR		2	2.5	
Attenuation accuracy root mean square		3		dB

Other parameters

step	1dB
Power	0.5W Design assurance
Impedance	50Ω
Connector	2.92-K detachable, Pin 0.3mm
Surface	Nickel plating
Working voltage	+12V
Working current	100mA
Work Temp.	-40~+70°C Design assurance
Storage Temp.	-40~+120°C Design assurance
Other	J30J-K connector power supply and control

Truth table (1 : 3.3~5V ; 0: 0V)

Attenuation	A6	A5	A4	A3	A2	A1
1	1	1	1	1	1	0
2	1	1	1	1	0	1
4	1	1	1	0	1	1
8	1	1	0	1	1	1
16	1	0	1	1	1	1
31	1	0	0	0	0	0
63	0	0	0	0	0	0

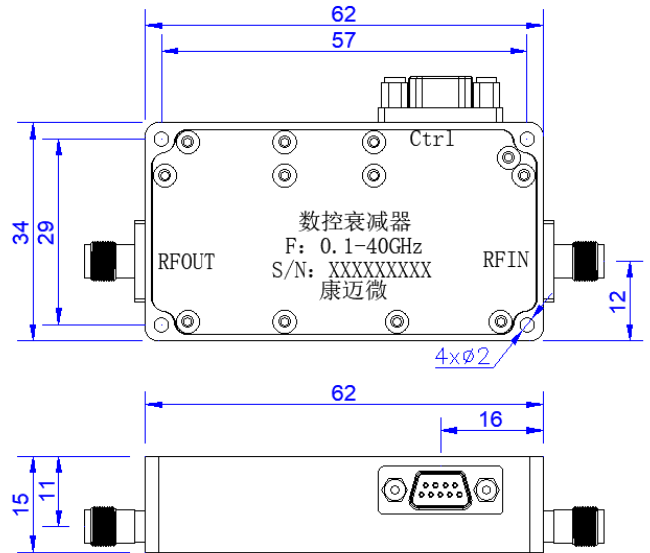
Typical test data

Frequency(GHz)	S11 VSWR	S21 L dB	A1 d B	A2 d B	A4 d B	A8 d B	A16 dB	A32 dB	A63 dB	S22 VSWR
3	1.7	-5.3	-1.1	-2.3	-3.9	-7.9	-16.6	-32.6	-62.7	1.7
6	2	-7.3	-1	-1.9	-3.9	-7.8	-16.6	-32.1	-62.6	2
9	1.3	-7	-1	-2.1	-3.9	-7.8	-16.6	-32.5	-63.3	1.5
12	1.3	-8.3	-0.9	-1.6	-4	-7.9	-16.8	-32.5	-63.5	1.4
15	1.9	-9.1	-0.9	-2	-3.7	-7.7	-16	-33.3	-64.4	1.8
18	1.6	-9.3	-0.7	-2.1	-3.9	-8.1	-16.2	-33.2	-66	1.3
21	1.6	-10.3	-1	-1.9	-3.7	-8	-15.9	-33.6	-64	1.6
24	1.3	-10.8	-1	-2.3	-3.9	-8.4	-15.9	-33.4	-62.7	1.7
27	1.6	-11.9	-0.9	-2.1	-3.9	-8.1	-15.8	-33.5	-65	1.1
30	1.2	-12	-1.2	-2	-4	-8.4	-15.6	-33.6	-62.8	1.3
33	1.6	-13.7	-0.9	-2.6	-4	-8.5	-15.4	-32.9	-62.8	2.1
36	1.7	-13.8	-1.1	-2.4	-4.2	-8.4	-15.2	-32.6	-63.7	1.6
39	1.3	-14.4	-1.1	-2.1	-4.2	-8.5	-14.8	-31.6	-59.4	1.6

Reference picture



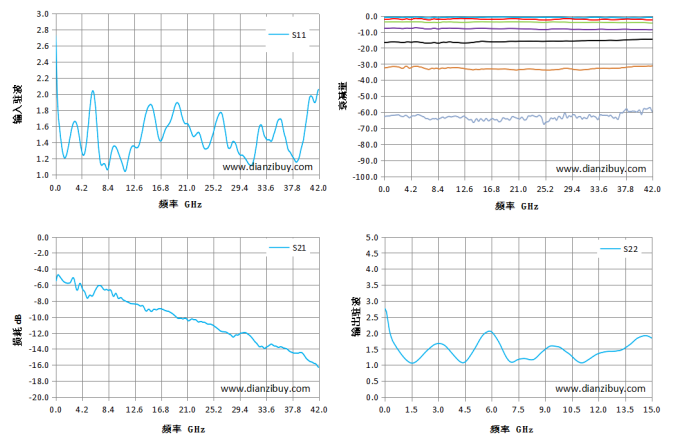
Configuration(mm)



J30J-9 Pin Definition

线序	1	2	3	4	5	6	7	8
definition	+12V	GND	A1	A2	A3	A4	A5	A6

Typical test curve



Note

1. Clean the surface of the product, do not soak the product in a cleaning solution;
2. This product belongs to electrostatic sensitive devices. Pay attention to anti-static measures during installation or storage;
3. If the overall temperature is greater than 125 °C, please consult with us before placing an order.