



FEATURE:

- ◆ high stability
- ◆ repeatability
- ◆ attenuation wide dynamic range
- ◆ good linearity
- ◆ Low insertion loss
- ◆ Control source requiring low



APPLICATION:

The series is an ideal device microwave systems, microwave signal size control.

SPECIFICATIONS:

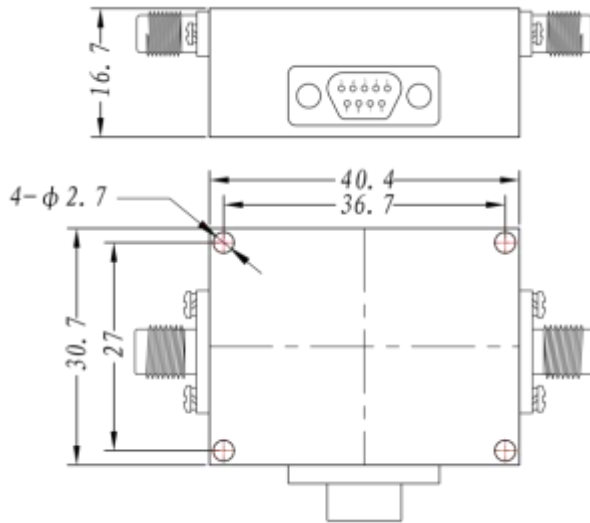
ITEMS	Parameters
Fre.	0.5~18G
Attenuation Range(dB)	63.5dB
Insertion Loss(dB)	10.5dB
Step Size (dB)	0.5dB
Control Bits	7
Attenuation Accuracy(dB)	±0.5 (Attenuation<31dB) ; ±1.5dB (Attenuation ≥31dB)
Flatness(dB)	±0.5 (Attenuation<31dB) ; ±1.5dB (Attenuation ≥31dB)
VSWR	2: 1

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Operating Temperature	-55		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10000		30000	feet
Shock / Vibration(MIL-STD-810F)		Airborne		



OUTLINE DRAWING(mm):



Connector: RF Input/Output (SMA-K 50 Ω)

Control Port: J30J-9

J30J-9 Pin Definition:

PIN No.	Property
1	+5V
2	GND
3~9	Attenuation Control

Control: TTL Level

“0” : Low Level; “1” : High Level

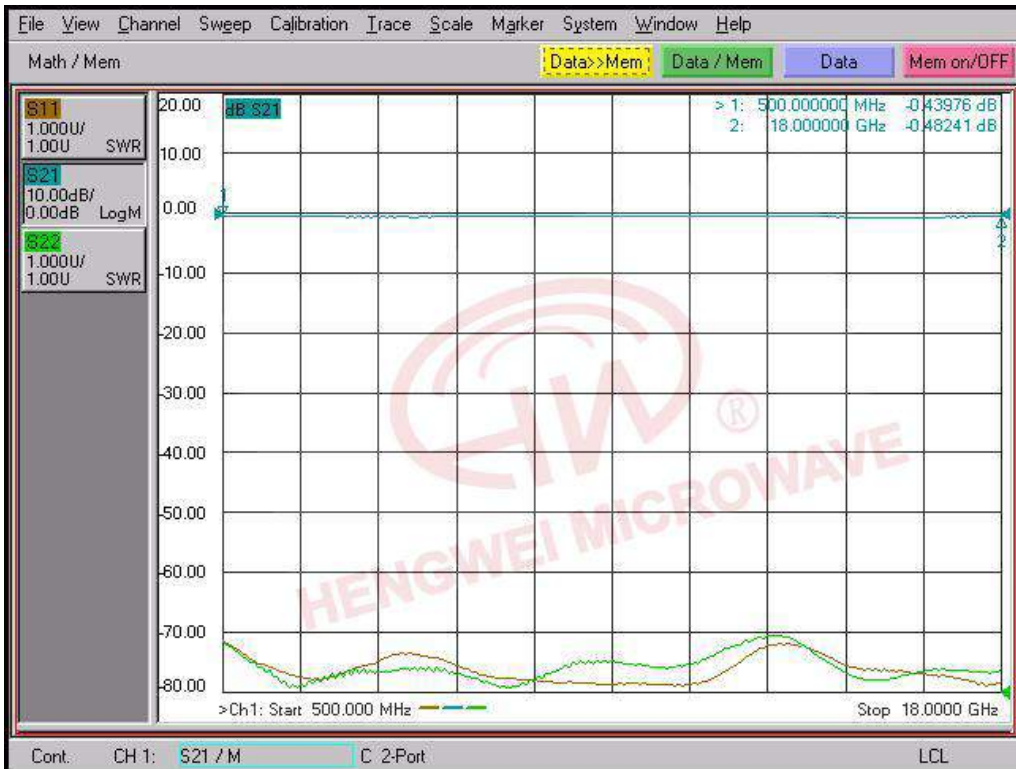
ATT (dB)	J30J-9 PIN No.							
	3	4	5	6	7	8	9	
Direct State	0	0	0	0	0	0	0	
0.5	1	0	0	0	0	0	0	
1.0	0	1	0	0	0	0	0	
2.0	0	0	1	0	0	0	0	
4.0	0	0	0	1	0	0	0	
8.0	0	0	0	0	1	0	0	
16.0	0	0	0	0	0	1	0	
32.0	0	0	0	0	0	0	1	
63.5	1	1	1	1	1	1	1	



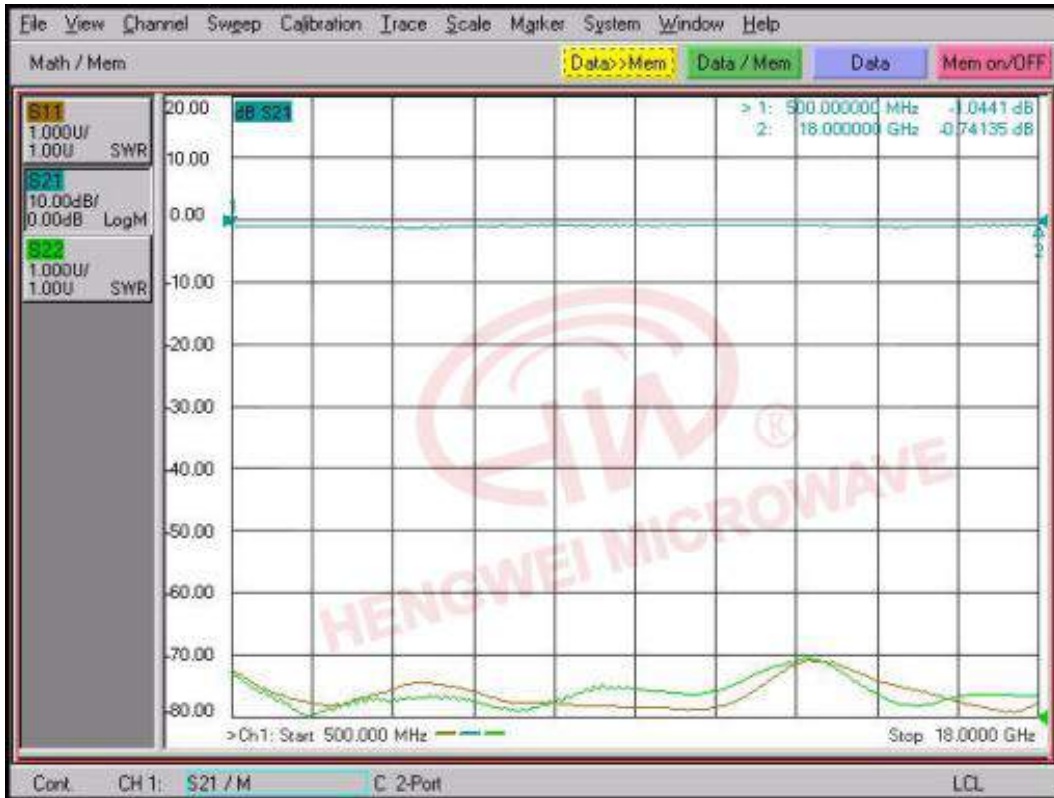
HWDCA-118-1-6 TEST CURVE AS FOLLOWS:



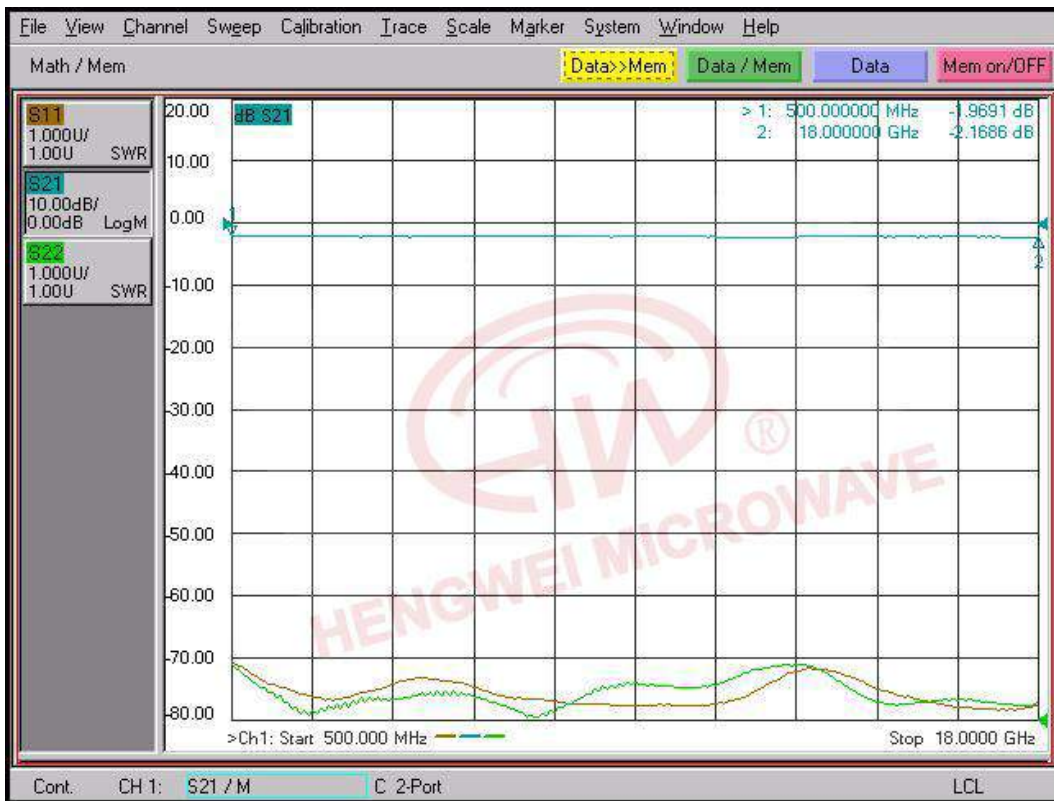
PIC1: Direct State Test Curve



PIC2: 0.5dB Test Curve



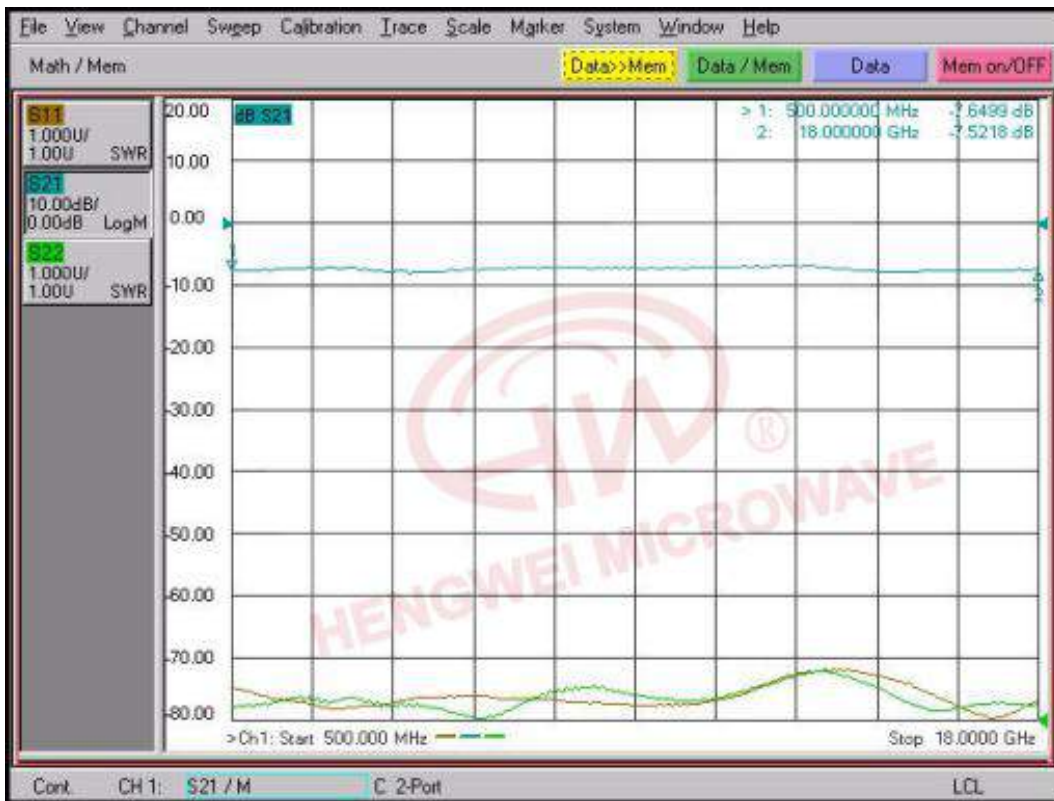
PIC3: 1dB Test Curve



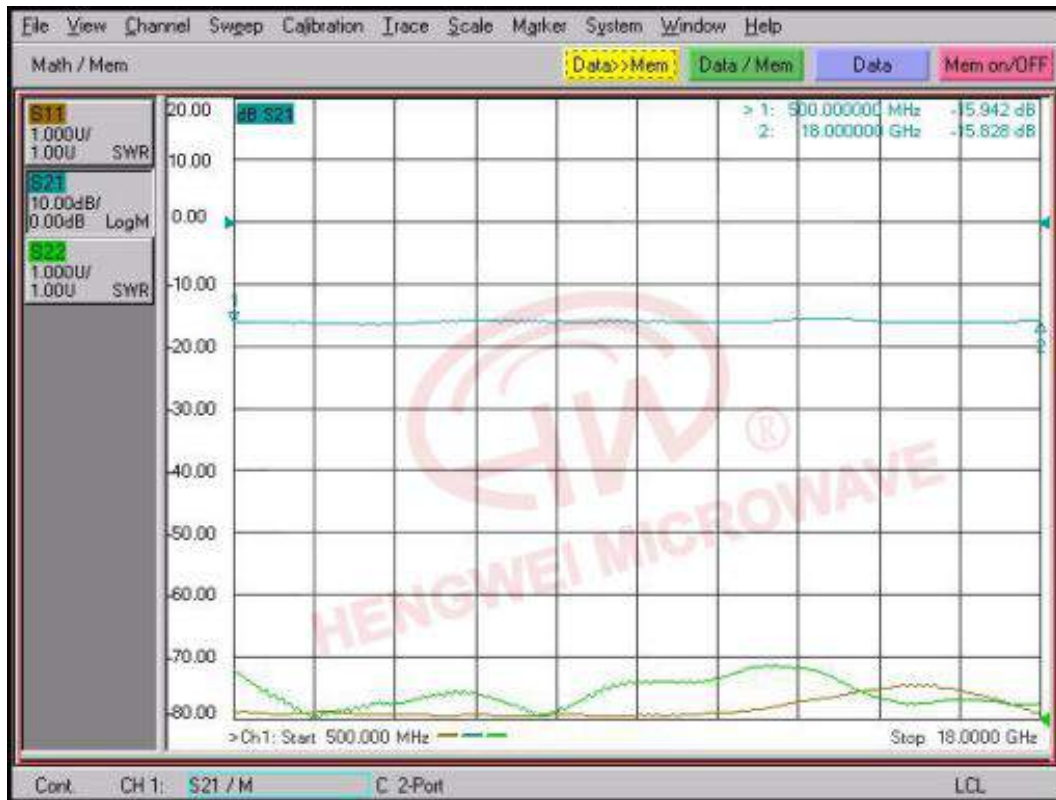
PIC4: 2dB Test Curve



PIC5: 4dB Test Curve



PIC6: 8dB Test Curve



PIC7: 16dB Test Curve



PIC8: 32dB Test Curve



PIC9: 63.5dB Test Curve