

## 1. ELECTRICAL SPECIFICATIONS

Description	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	0.5		8	8		18	GHz
Insertion Loss		5	5.5		6.5	7.5	dB
Attenuation Range		31			31		dB
Attenuation Accuracy	$\pm 1.5(\pm 0.3+5\%A)$		$\pm 1.8(\pm 0.3+5\%A)$				
Control Step Size	1						
Input VSWR		1.7	2		1.7	2	
Output VSWR		1.7	2		1.7	2	
Switching Speed	<50						ns
Weight	15						g
Impedance	50						"
Bias Current(+5V/-5V)	<5						mA
Input/Output Connectors	2.92mm-Female						
Control Interface							
Dimensions	26*19*11						mm

## 3. ABSOLUTE MAXIMUM RATINGS

Voltage Type	Description	Value
Biasing	VCC	+5V $\pm 10\%$
	VEE	-5V $\pm 10\%$
Control Voltage	low	0 - 0.8V@1uA
	High	+2 - +5V@1uA

## 4. ENVIRONMENTAL SPECIFICATIONS

Description	Value
Max Input Power Pin	+30 dBm
Max Bias Voltage	+5V $\pm 10\%$
Operational Temperature	-45 ~ +85
Storage Temperature	-55 ~ +125

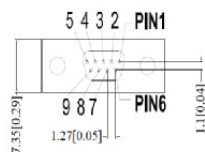
## 5. INTERFACE DESCRIBE

Interface No.	Description
RF1 RF2	RF input/output Port% match 50 $\Omega$
C1-C5	Attenuation control (TTL electrical level)
+5V	Bias Voltage
-5V	Bias Voltage
GND	GND

## 6. TRUTH TABLE

Control Voltage Input					Attenuation State
C5	C4	C3	C2	C1	
1	1	1	1	1	Reference IL
1	1	1	1	0	1dB
1	1	1	0	1	2dB
1	1	0	1	1	4dB
1	0	1	1	1	8dB
0	1	1	1	1	16dB
0	0	0	0	0	31dB

## 7. PIN DEFINITION



MICRO-D9(Female)								
1	2	3	4	5	6	7	8	9
C1	C2	C3	C4	C5	NC	GND	+5V	-5V