

Model:TLDA8G18G-127-7

Digital Attenuator

8-18 GHz, 7-Bit, 1 dB LSB,127 dB Range

Feature:

- Ultra Wide Band: 8-18GHz
- 7-Bit, 1 dB LSB, 127 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	8-18			GHz
Insertion Loss		10		dB
Attenuation Range	127			dB
Control Bit TTL	7			Bit
Attenuation Step	1			dB
Switch Speed		50		ns
Input VSWR		2		:1
Output VSWR		2		:1
Input Max Power	25			dBm
DC Voltage	+5			V DC
DC Supply Current		20		mA
Impedance	50			Ohms

Mechanical Specifications:

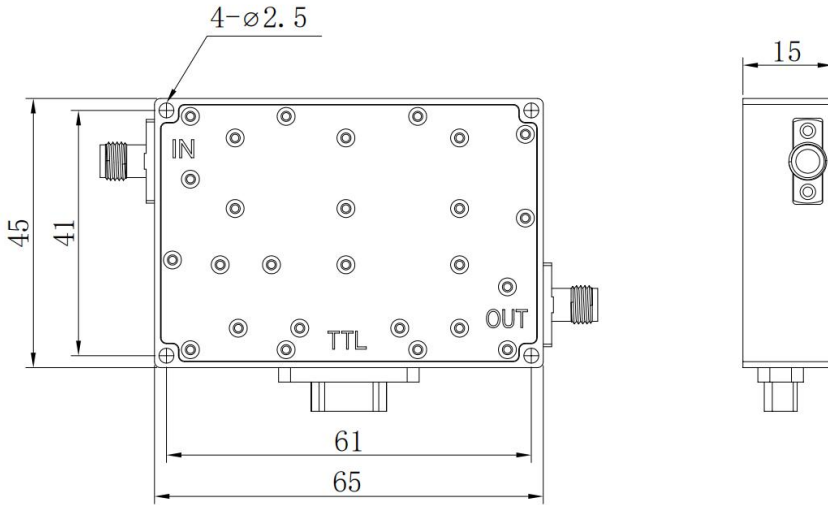
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC control interface	J30J-15ZKP	
Size	65*45*15	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+5V (±5%)
RF Input Power	25 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Truth Table							
TTL Control Input							Signal Path State
C1	C2	C3	C4	C5	C6	C7	
0	0	0	0	0	0	0	0dB
1	0	0	0	0	0	0	1dB
0	1	0	0	0	0	0	2dB
0	0	1	0	0	0	0	4dB
0	0	0	1	0	0	0	8dB
0	0	0	0	1	0	0	16dB
0	0	0	0	0	1	0	32dB
0	0	0	0	0	0	1	64dB
1	1	1	1	1	1	1	127dB

J30J-15ZKP			
Pin#	Function	Pin#	Function
1	+5V	9	GND
2	+5V	10	GND
3	GND	11	GND
4	GND	12	GND
5	C1	13	C5
6	C2	14	C6
7	C3	15	C7
8	C4		

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLDA8G18G-127-7	7-Bit Digital Digital Attenuator,8-18GHz,2.92mm Female	Rev.1.1