

Model:TLDA0.1G3G-127-8

Digital Attenuator

0.1-3 GHz, 8-Bit, 0.5 dB LSB,127.5 dB Range

Feature:

- Ultra Wide Band: 0.1-3GHz
- 8-Bit, 0.5 dB LSB, 127.5 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-3			GHz
Insertion Loss		8.5		dB
Attenuation Range	127.5			dB
Control Bit TTL	8			Bit
Attenuation Step	0.5			dB
Switch Speed		50		ns
Input VSWR		1.9		:1
Output VSWR		1.9		:1
Input Max Power	25			dBm
DC Voltage	5			V DC
DC Supply Current			80	mA
Impedance	50			Ohms

Mechanical Specifications:

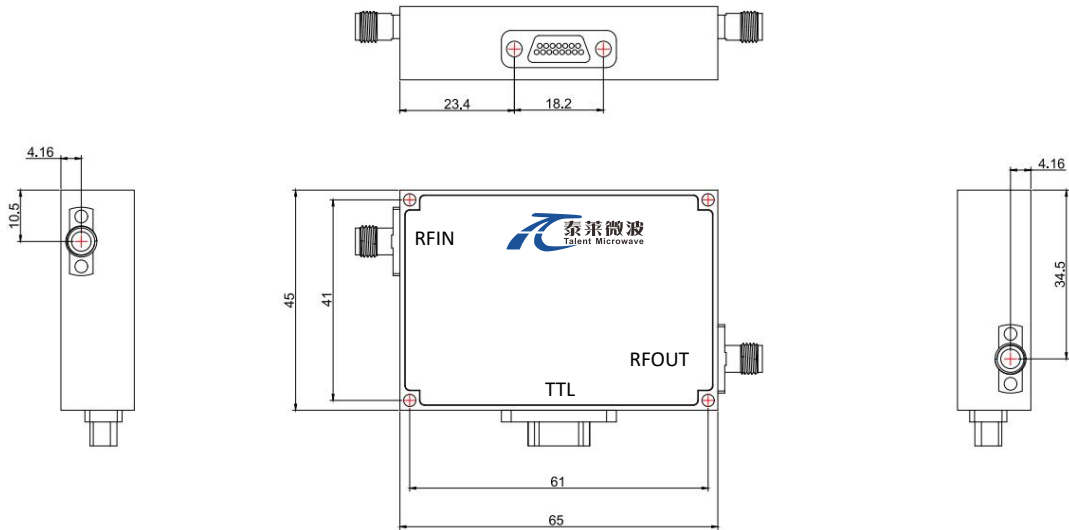
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC control interface	J30J-15ZKP	
Size	/	mm
Weight	/	g

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm

[illegible]

Supply Conector(J30J-15ZKP):

J30J-15ZKP			
Pin#	Function	Pin#	Function
1	+5V	9	GND
2	+5V	10	GND
3	GND	11	GND
4	C1	12	C5
5	C2	13	C6
6	C3	14	C7
7	C4	15	C8
8	GND		

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
TLDA0.1G3G-127-8	8-Bit Digital Digital Attenuator,0.1-3GHz,SMA Female	Rev.1.1