

Model:TLDA0.1G40G-63.7-10
Digital Attenuator
0.1-40 GHz, 10-Bit, 0.1 dB LSB, 63.7 dB Range
Feature:

- Ultra Wide Band: 0.1-40GHz
- 10-Bit, 0.1 dB LSB, 63.7 dB Range
- Low Insertion Loss
- High Attenuator Accuracy

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-40			GHz
Insertion Loss		20		dB
Attenuation Range	63.7			dB
Control Bit TTL	10			Bit
Attenuation Step	0.1			dB
Switch Speed		10		ms
Input VSWR		1.8		:1
Output VSWR		1.8		: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	2.92mm Female/2.92mm Female	
DC control interface	J30J-15ZKP	
Size	/	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

Supply Conector(J30J-15ZKP):

J30J-15ZKP			
Pin#	Function	Pin#	Function
1	V1	9	V9
2	V2	10	V10
3	V3	11	NC
4	V4	12	NC
5	V5	13	NC
6	V6	14	GND
7	V7	15	+5V
8	V8		

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
TLDA0.1G40G-63.7-10	10-Bit Digital Digital Attenuator,0.1-40GHz,2.92mm Female	Rev.1.1