

10dB LSB, 0.01-40GHz, 4 bit Digital Attenuator, Range 0-60dB

2022-9-1



Description:

AT-4DAT-0040SN-60 is a 0.01-40GHz digital attenuator with 10dB LSB, 4bit control, 60dB attenuation range. The insertion loss is -12dB typical.

The attenuator is suitable for broadband test, and 5G millimeter wave application. The attenuator is with 2.92mm Female connector. There are dc block within input and output ports.

More information, visit www.atmicrowave.com

Feature

- ✓ Frequency: 0.01-40GHz
- ✓ 4bit, 10dB LSB
- ✓ Attenuation Range: 0-60dB
- ✓ Very fast speed

Application

- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System
- ✓ Telecom Communication

Electronical Specifications:

Parameter	Min	Typical	Max
Frequency		0.01-40GHz	
Insertion Loss		0.01-18GHz: -12dB 18-40GHz: -15dB	
Control Bit		4bit	
Step		10dB LSB	
Attenuation Range		0 to 60dB	
Power Supply		-5V/20mA	
TTL		Low=0 to +0.8V High=+2.3 to +5V	
Return Loss		-10dB	
P1dB		+23dBm	
Spec Temp		25C	





AT-4DAT-0040SN-60

10MHz-40GHz Digital Attenuator

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	2.92mm Female
DC and Control	J30J-9ZKSP
Case Material	Copper
Finish	Gold Plated
Weight	50g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
VDD	-6V
RF Power	+25dBm
Operating Temperature	-40 to +85C
Storage Temperature	-65 to +150C

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.





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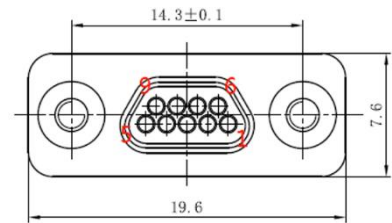
True Table

D1	D2	D3	D4	Attenuation State
1	1	1	1	0 (reference)
0	1	1	1	10 dB
0	0	1	1	20 dB
0	0	0	1	30 dB
0	1	1	0	40 dB
0	0	1	0	50 dB
0	0	0	0	60 dB

Low=0 to +0.8V
 High= +2.3to +5V

J30J-9ZKSP Pin Description:

Pin Number	Function
1	D1
2	D2
3	D3
4	D4
5	NC
6	NC
7	NC
8	VEE=-5V
9	GND



Dimension (mm)

