



Serial DC-18GHz Programmable & Mechanical Attenuators



Features

- High Power Handling Capability
- Low VSWR
- Excellent Temperature Stability
- Miniaturization

Typical Applications

- Wireless Infrastructure
- RF Microwave & VSAT
- Military & Aerospace
- Test Instrument
- Fiber Optics

General Description

- With excellent RF performance, RKT1G18A110 serial programmable / mechanical attenuators are used in many high frequency applications. They feature a wide frequency range, low VSWR, long life cycle, high repeatability and stability.
- Programmable versions can be controlled using a computer's interface or external instruments/circuit panels produced by RF-LAMBDA .
- The products are widely used in scientific research, aviation, military, broadcast, weather service and medical treatment where high frequency controlled attenuation is required.



RF-LAMBDA

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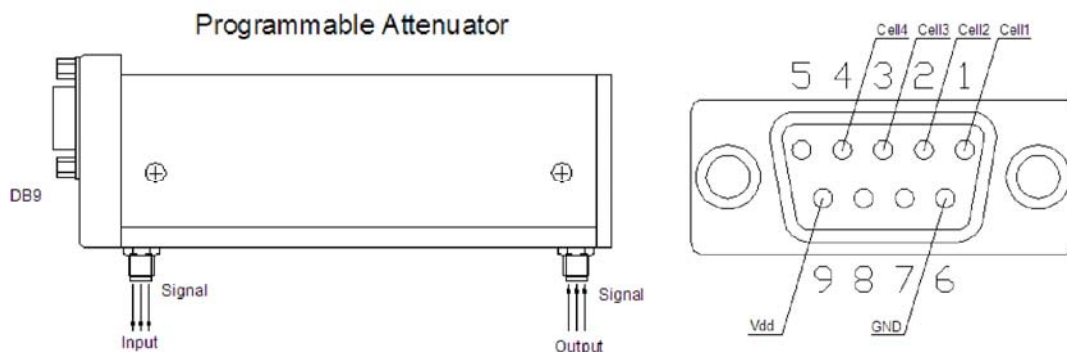
RKT1G18A110

Electrical Specifications

Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		DC		8	DC		12.4	DC		18	GHz
Attenuation Value			110			110			110		dB
Attenuation Accuracy			±4			±4			±4.5		dB
Attenuation Steps			10			10			10		dB
Cells Value			4			4			4		
Cell No.1(dB)	Through		0			0			0		
	Att.Steps		10			10			10		
Cell No.2(dB)	Through		0			0			0		
	Att.Steps		40			40			40		
Cell No.3(dB)	Through		0			0			0		
	Att.Steps		20			20			20		
Cell No.4(dB)	Through		0			0			0		
	Att.Steps		40			40			40		
VSWR				1.6			1.6			1.75	
Insertion Loss				0.6			0.6			0.6	dB
Average Power		1W (100W pulse with 10μS width)									W
Operating Voltage		24									V
Control Voltage		3.3~5V (Pulse width 50mS~1S)									V
Control current		0.02-0.8									mA
Source operation current		2			2			2			A
State switch time				20			20			20	ms
Repeatability of attenuation		0.05									dB
Working life		10 ⁶									
Operating Temperature		-20 to +70									°C
Storage temperature		-55 to +85									°C
Size	Mechanical	157.5×50×41									mm
	Programmable	143.5×50×41.5									mm
Weight	Mechanical	12.52									ounces
	Programmable	14.81									ounces
Connector		SMA									
Control type	C	Manual									
	F	Programmable									

Mechanical and Control Details

Input control pin high activates corresponding attenuation and low disables.



Serial DC-18GHz Programmable & Mechanical Attenuators



Outline Drawing:

All Dimensions in mm (inches)

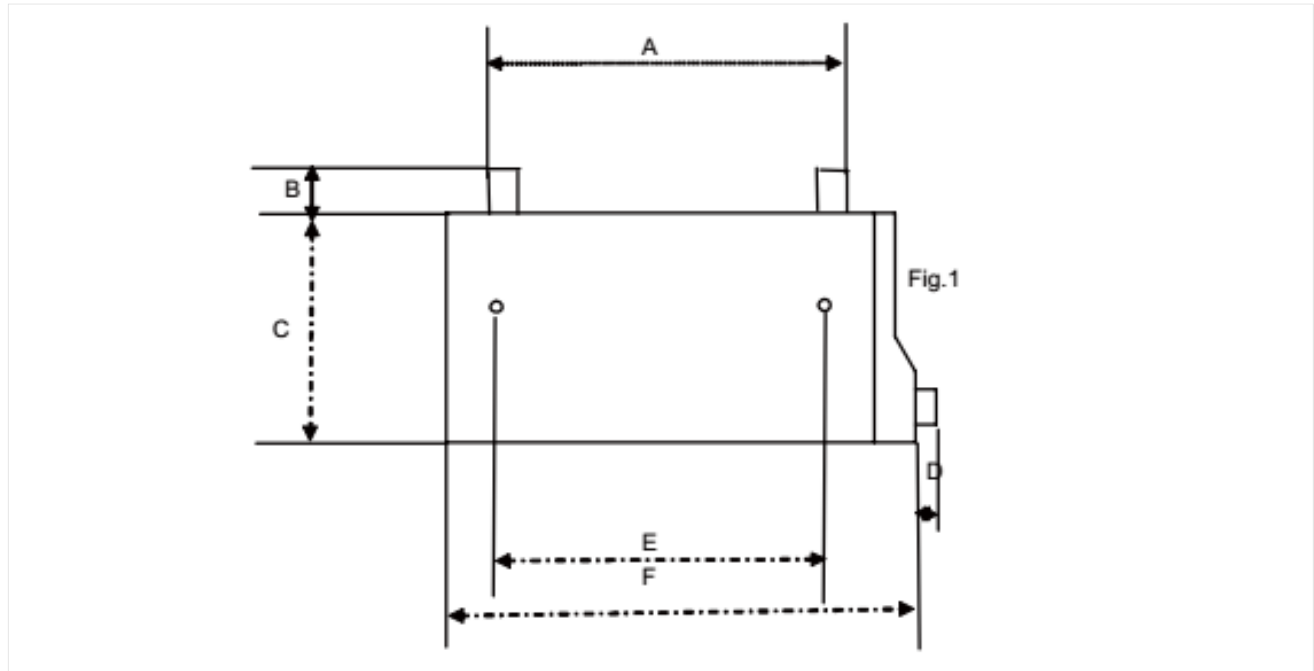


Table2: Outline and Installation Size of Different Model

Dimensions	A	B*	C	D	E	F
Manual 4 cells	114.4	8.3	38	29.2	103.4	135.8
Programmable 4 cells	114.4	8.3	44.3	6	103.4	135.8

B*: N type: 28, Units: (mm)

Notes:

1. Dimensions Tolerance $\pm 2\%$
2. Custom designs available for other special attenuation values & accuracy

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