



WIDE BAND DIGITAL CONTROL ATTENUATOR

MDC010020R30B6

FEATURES

- Whole Solid State, Mixture Integrated
- Low Power Consumption
- Excellent Flatness & Accuracy
- Miniature Sizes for drop-In available

APPLICATIONS

- Military & Space
- Radar & Electronic warfare
- Test Equipment



ELECTRICAL SPECIFICATIONS @ 25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	1		2	GHz
Insertion Loss			2	dB
Mean attenuation Range	0		30	dB
Step Size			0.5	dB
Control bits		6		bits
Attenuation accuracy			±1	dB
Speed			150	ns
Flatness		±0.3		dB
VSWR			1.8:1	Ratio
DC Power +5V		50		mA
DC Power -5V		50		mA

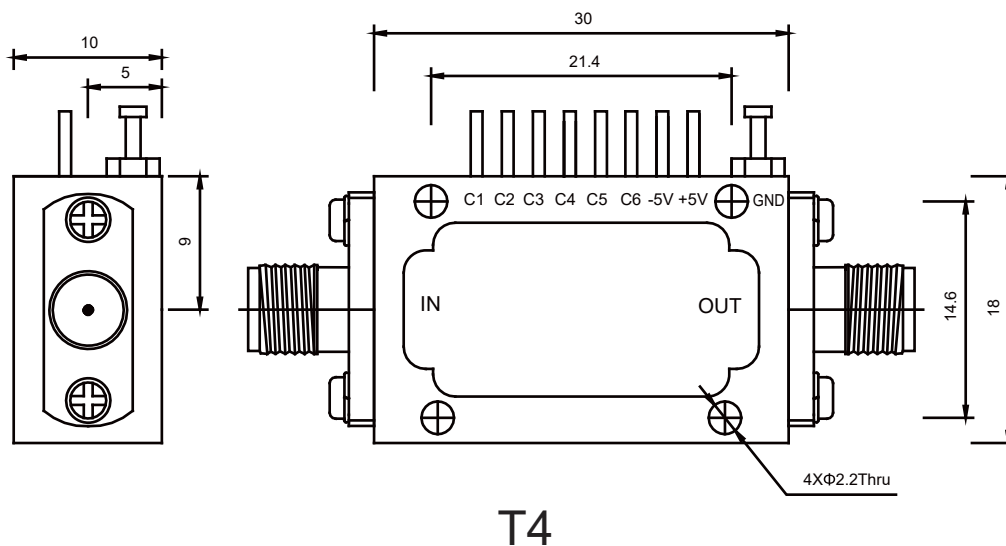
ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input Power			27	dBm
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		85	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		
ROHS		Compliant		

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	30*18*10		Millimeter
Weight	100	type	gram
RF Connectors Input	SMA-F removable		
RF Connectors output	SMA-F removable		
Impedance	50		ohms

OUTLINE DRAWING(mm):



TEST DATA:

Frequency Range (GHz)	Insertion Loss (Max) ≤2dB	Input VSWR (Max) ≤1.8	Output VSWR (Max) ≤1.8	Attenuation(dB)
1-2	1.8	1.3	1.33	0.5/1/2/4/8/16/32