



WIDE BAND DIGITAL CONTROL ATTENUATOR

MDC020180R30B6

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	2		18	GHz
Insertion Loss			4.5	dB
Mean attenuation Range	0		30	dB
Step Size			0.5	dB
Control bits		6		bits
Attenuation accuracy			±1.5	dB
Speed			100	ns
Flatness		±0.8		dB
VSWR			2.2:1	Ratio
DC Power +5V		50		mA
DC Power -5V		50		mA

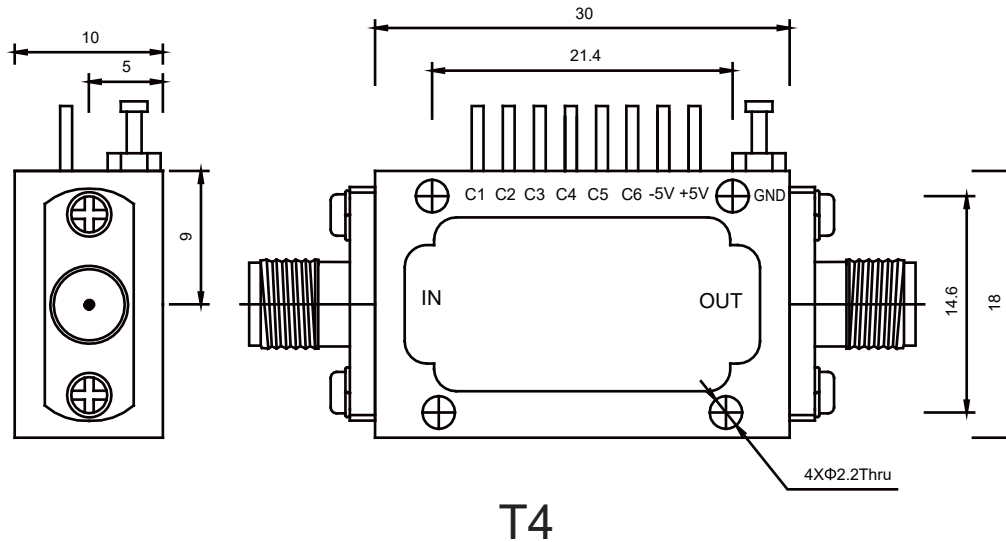
ENVIRONMENTAL RATINGS:

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	30	type	gram
RF Connectors Input	SMA-F removable		
RF Connectors output	SMA-F removable		
Impedance	50		ohms

OUTLINE DRAWING(mm):



TEST DATA:

Frequency 2-18(GHz)																
IL(dB)		VSWR (Max)	Attenuation(dB)													
Min	Max		0.5	1	2	4	8	16	31.5							
2.86	5.62	1.75	0.47	0.71	0.86	1.44	1.96	2.34	3.95	4.51	7.68	8.3	16.24	16.81	31.28	33.92