



WIDE BAND DIGITAL CONTROL ATTENUATOR

MDC005060R30B6

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	0.5		6	GHz
Insertion Loss			3.6	dB
Attenuation Range			31.5	dB
Step Size			0.5	dB
Control bits		6		bits
Attenuation Accuracy			$\pm (0.2 \pm 5\% A)$	dB
Input/Output VSWR			2:1	Ratio
DC Power +5V		50		mA
DC Power -5V		50		mA

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input Power				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		
RF Connectors output	SMA-F		
Impedance	50		ohms

PIN		Control
C1	0.5dB	TTL Control, "1" Attenuation; "0" Insertion Loss
C2	1dB	TTL Control, "1" Attenuation; "0" Insertion Loss
C3	2dB	TTL Control, "1" Attenuation; "0" Insertion Loss
C4	4dB	TTL Control, "1" Attenuation; "0" Insertion Loss
C5	8dB	TTL Control, "1" Attenuation; "0" Insertion Loss
C6	16dB	TTL Control, "1" Attenuation; "0" Insertion Loss

OUTLINE DRAWING(mm):