



# WIDE BAND DIGITAL CONTROL ATTENUATOR

## MDC005010R30B6

### 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 |         | 1     | 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                  |     |         | 100   | ns    |
| Flatness               |     | ±0.3    |       | dB    |
| VSWR                   |     |         | 1.5:1 | 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       |



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## OUTLINE DRAWING(mm):

