

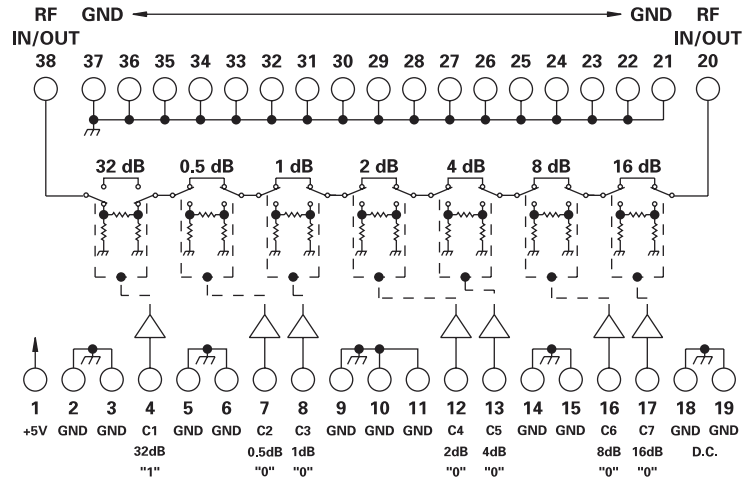
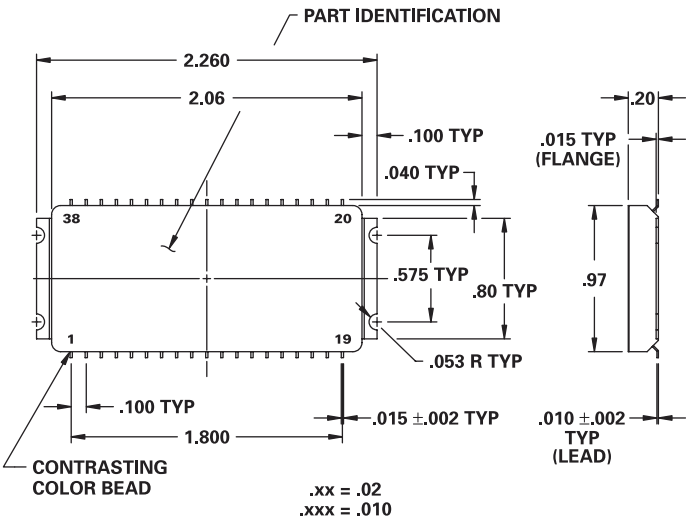
# MODEL NUMBER DA0795

# PIN Diode 7 Section Attenuator

## FEATURES

- 30-500 MHz
- 0.5 dB LSB, 63.5 dB Range
- TTL Control
- 38 Pin Surface Mount Package
- See DA0295 for 38 Pin DIP Version
- See 100C1595 for Connectorized Version

## 7 BIT



## GUARANTEED PERFORMANCE

| Parameter                    | Min       | Typ   | Max    | Units | Conditions  |
|------------------------------|-----------|-------|--------|-------|---|
| Operating Frequency          | 30        |       | 500    | MHz   |   |
| DC Current                   |           | 51    | 85     | mA    | At +5 VDC Supply  |
| Control Type                 |           | TTL   |        |       | 7 Line Logic "0" = Thru Logic "1" = Attenuation                 |
| Control Current              | High      | 0     | 40     | μA    | V <sub>IH</sub> = +2.7 V  |
|                              | Low       | -260  | -400   | μA    | V <sub>IL</sub> = +0.5 V  |
| Insertion Loss               |           | 4.5   | 6.0    | dB    |   |
| Attenuation                  | LSB       | 0.5   |        | dB    |   |
|                              | Range     |       | 63.5   | dB    |   |
|                              | Accuracy  |       |        | dB    | 0.5, 1, 2, 4, 8, 16, 32 ± (0.15 dB +2% of Atten. Setting in dB) |
| VSWR                         |           | 1.2/1 | 1.35/1 |       |   |
| Impedance                    |           | 50    |        | OHMS  |   |
| Switching Speed              |           | 7.8   | 20     | μSec  | 50% TTL to 90% / 10% RF   |
| Transition (Rise/Fall) Time  |           | 1.6   |        | μSec  | 90% / 10% or 10% / 90% RF                                       |
| Switching (Video) Transients |           | 88    |        | mV    | Peak Value  |
| Intercept Points             | 2nd       | +78   |        | dBm   | 38.4 MHz / 52.2 MHz   |
|                              | 3rd       | +36   |        | dBm   | 69.6 MHz / 52.2 MHz   |
| RF Power                     | Operate   | +12   | +10    | dBm   | 0.1 dB Compression  |
|                              | No Damage |       | +20    | dBm   |   |
| Operating Temperature        | -55       | +25   | +125   | °C    | TA  |

