

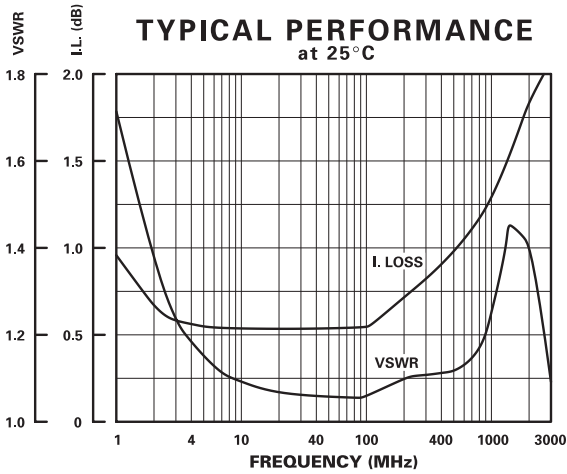
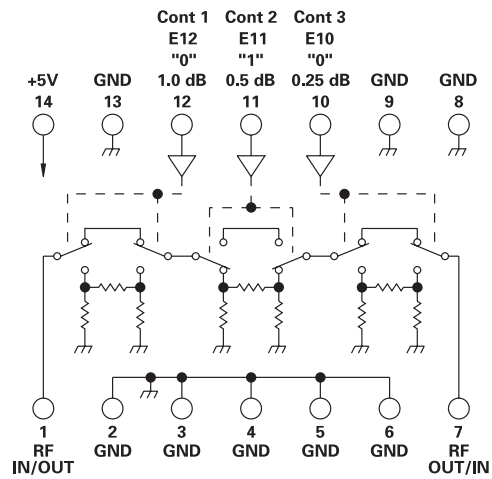
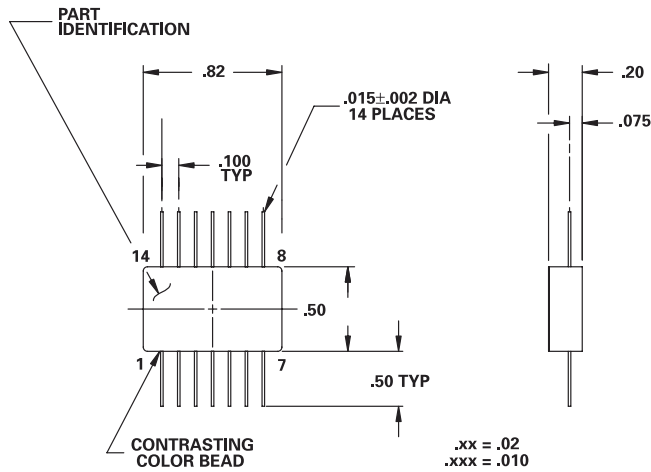
MODEL NUMBER DAT38031

GaAs 3 Section Attenuator

FEATURES

- 10-1000 MHz
- 0.25 dB LSB, 1.75 dB Range
- 20 nSec Switching Speed
- 70 mV Transients
- 2.4 mA @ +5 VDC
- 14 PIN Flatpack

3 BIT



| CONTROL DECODING | | | |
|------------------|-----|-----|-----------------------|
| CONTROL INPUT | | | ATTENUATION |
| E12 | E11 | E10 | SETTING |
| 0 | 0 | 0 | REFERENCE (THRU LINE) |
| 0 | 0 | 1 | .025 dB |
| 0 | 1 | 0 | 0.50 dB |
| 0 | 1 | 1 | 0.75 dB |
| 1 | 0 | 0 | 1.0 dB |
| 1 | 0 | 1 | 1.25 dB |
| 1 | 1 | 0 | 1.50 dB |
| 1 | 1 | 1 | 1.75 dB |

GUARANTEED PERFORMANCE

| Parameter | Min | Typ | Max | Units | Conditions |
|------------------------------|--------------------------|-------------|------------|-------|--|
| Operating Frequency | 10 | | 1000 | MHz | |
| DC Current | | 2.4 | 5 | mA | At +5 VDC Supply |
| Control Type | | TTL | | | 3 Line See Decoding Table |
| Control Current | High Low | 0 0 | 50 -500 | μA | V _{IH} = +2.0 Volts V _{IL} = +0.8 Volts |
| Insertion Loss | | 1.4 | 2.0 | dB | |
| Attenuation | LSB Range Accuracy | .25 1.75 | ±0.2 | dB | 0.25, 0.50, 1.0 |
| VSWR | | 1.15/1 | 1.6/1 | | |
| Impedance | | 50 | | OHMS | |
| Switching Speed | | 20 | 200 | nSec | 50% TTL or 10% / 90% RF |
| Transition (Rise/Fall) Time | | 10 | 100 | nSec | 90% / 10% or 10% / 90% RF |
| Switching (Video) Transients | | 70 | 100 | mV | Peak Value |
| Intercept Points | 2nd 3rd | +30 | +41 | dBm | |
| RF Power | Operate No Damage | +15 | +10 +10 | dBm | 0.1 dB Compression |
| Operating Temperature | -40 | +25 | +90 | °C | TA |