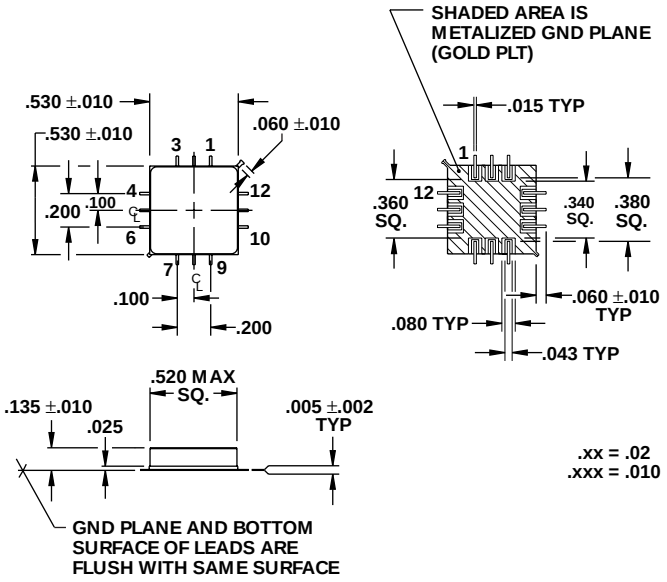
## FEATURES

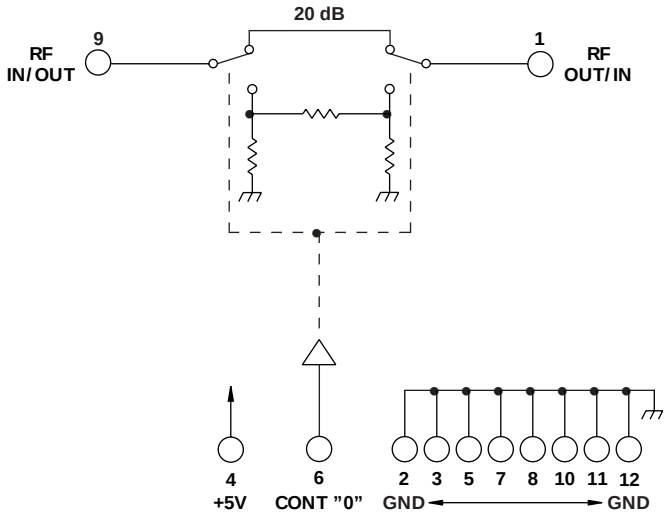
- 200 - 600 MHz
- SPACE Application
- Hermetic Package
- Small Size
- Surface Mount
- Radiation Tolerant, 100 K Rad

1 BIT

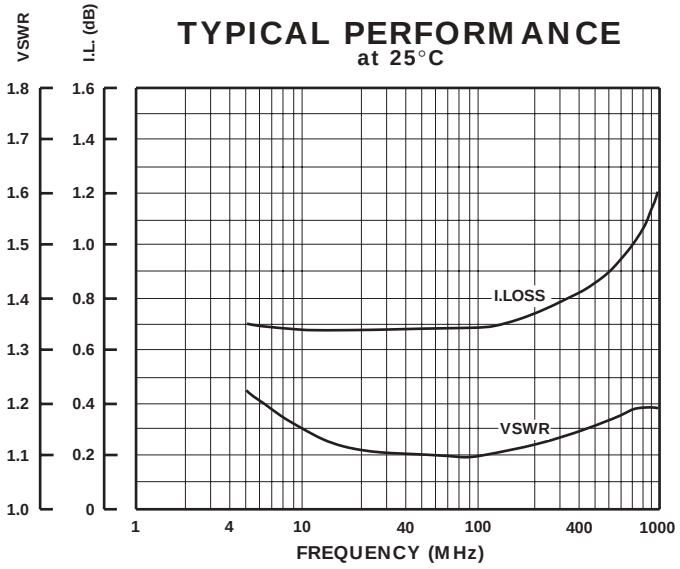
# MODEL NO. CAT15065

## GaAs 1 Section Attenuator




## TYPICAL PERFORMANCE at 25°C




## GUARANTEED PERFORMANCE

| Parameter | | Min | Typ | Max | Units | Conditions |
|---|---|---|---|---|---|---|
| Operating Frequency | | 200 | | 600 | MHz | |
| DC Current | | | 0.2 | 1.0 | mA | At +5 VDC Supply |
| Control Type | | | CMOS | | | 1 Line<br>Logic "0" = Thru<br>Logic "1" = Attenuation |
| Control Current | *High* | | 0 | ±20 | µA | 3 - 5 Volts |
| | *Low* | | 0 | ±20 | µA | 0 - 0.5 Volts |
| Insertion Loss | | | 1.0 | 1.5 | dB | |
| Attenuation | *LSB* | | 20 | | dB | |
| | *Range* | 0 | | 20 | dB | |
| | *Accuracy* | | | | dB | ± (0.15 dB +2% of Atten Setting in dB) |
| | *Flatness* | | | ±0.2 | dB | |
| VSWR | | | 1.1/1 | 1.25/1 | | |
| Impedance | | | 50 | | OHMS | |
| Switching Speed | | | 20 | 50 | nSec | 50% Control Signal<br>90% / 10% RF |
| Transition (Rise/Fall) Time | | | 10 | | nSec | 10% / 90% or 90% / 10% RF |
| Switching (Video) Transients | | | 45 | | mV | Peak Value |
| Intercept Points | *2nd* | +75 | +80 | | dBm | |
| | *3rd* | +40 | +48 | | dBm | |
| RF Power | *Operate* | | +12 | +10 | dBm | 0.1 dB Compression |
| | *No Damage* | | | +27 | dBm | |
| Operating Temperature | | 0 | +25 | +65 | °C | TA |
| Non-Operating Temperature | | -34 | | +95 | °C | TA |