


SP2T

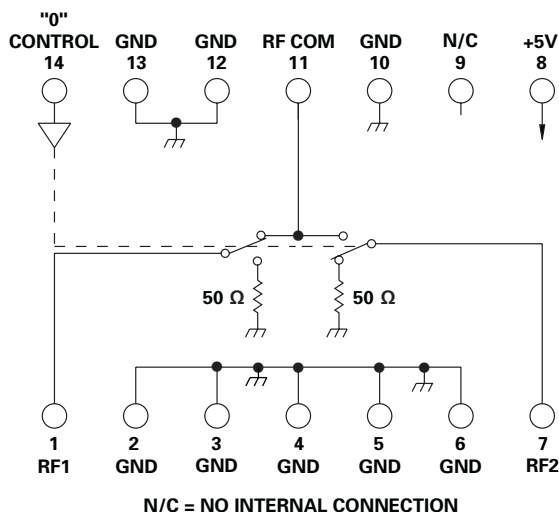
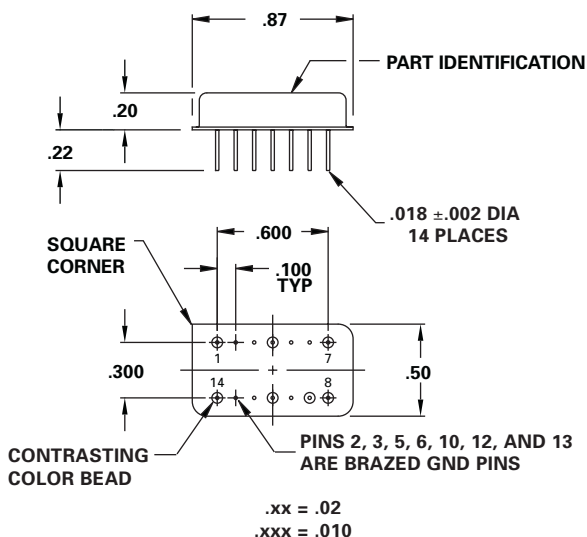
FEATURES

- 5 - 1500 MHz
- 0.7 mA, +5VDC
- 90 dB Isolation
- High Intercept points
- Non-Reflective
- TTL Driver
- 14 Pin DIP
- See DS0742 For 14 Pin SMP



MODEL NO. DS0842

GaAs SP2T



GUARANTEED PERFORMANCE

| Parameter | Min | Typ | Max | Units | Conditions |
|------------------------------|---------------------|--------|-------|-------|--|
| Operating Frequency | 5 | | 1500 | MHz | |
| DC Current | | 0.7 | 1.0 | mA | At +5 VDC Supply |
| Control Type | | TTL | | | 1 Line Logic "0" = Pin 11 to Pin 1 Logic "1" = Pin 11 to Pin 7 |
| Control Current | | 1.0 | ±10 | µA | V _{IH} = +3.0V V _{IL} = +0.5V |
| Insertion Loss | | 1.0 | 1.25 | dB | 5 - 300 MHz 300 - 1500 MHz |
| | | 1.5 | 2.0 | | |
| Isolation | 60 | 75 | | dB | 5 - 300 MHz 300 - 1500 MHz |
| | | 50 | 58 | | |
| VSWR | Thru Termination | 1.25/1 | 1.4/1 | | |
| | | | 2/1 | | |
| Impedance | | 50 | | OHMS | |
| Switching Speed | | 50 | 70 | nSEC | 50% TTL to 90% / 10% RF |
| Transition (Rise/Fall) Time | | 40 | | nSEC | 90% / 10% or 10% / 90% RF |
| Switching (Video) Transients | | 25 | | mV | Peak Value |
| Intercept Points | 2nd 3rd | +69 | | dBm | 500 MHz / 350 MHz 250 MHz / 350 MHz |
| | | +50 | | | |
| | | +30 | | | |
| RF Power | Operate | +14 | +10 | dBm | 5 - 100 MHz 0.1 dB Comp. 100 - 1500 MHz 0.1 dB Comp. |
| | | +20 | +15 | | |
| | No Damage | | +30 | dBm | |
| Operating Temperature | -55 | +25 | +125 | °C | TA |

