

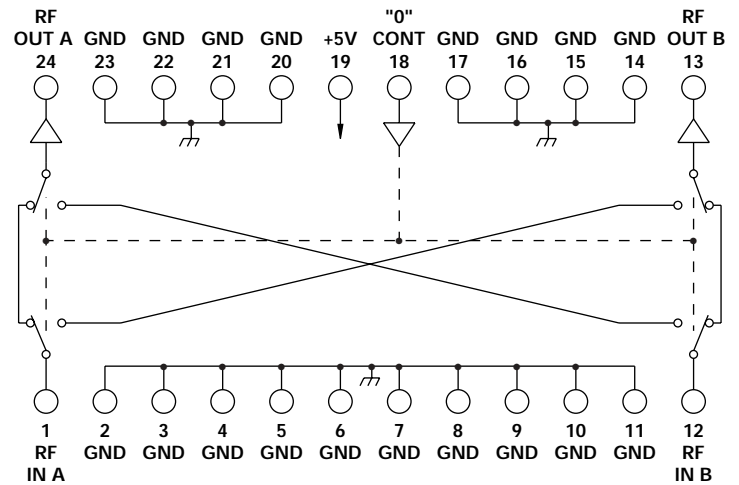
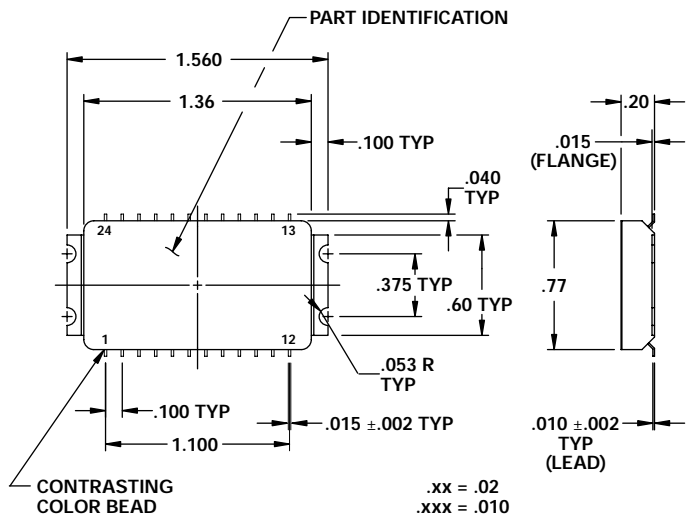
## FEATURES

- 50 - 70 MHz
- SPACE Application
- Hermetic Package
- Radiation Tolerant, 100 K Rad
- Surface Mount



MODEL NO.  
CSWT5104

GaAs Transfer Switch / Amplifier



## GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions
Operating Frequency	50		70	MHz	
DC Current		33	40	mA	At +5 VDC Supply
Control Type		TTL			"1" = RF In A to RF Out B RF In B to RF Out A "0" = RF In A to RF Out A RF In B to RF Out B
Control Line Isolation	35	62		dB	Output to Control
Gain	16	16.9	18	dB	
Gain Flatness		±0.01	±0.5	dB	
Gain Tracking		±0.01	±0.25	dB	Normal to Crossed
Gain Phase	50 MHz 60 MHz 70 MHz	162.5 157.5 152.5	165.5 160.5 155.0	168.5 163.5 158.0	DEG DEG DEG
Control Current	High Low		±10 ±10	µA	V <sub>IH</sub> = +2.75 V V <sub>IL</sub> = +0.8 V
Isolation	40	69		dB	Off Path Gain Referenced To On Path Gain
VSWR (Input/Output) Thru		1.5/1	1.7/1		
Noise Figure		3.30	4.70	dB	
Impedance		50		OHMS	
Switching Speed		230	300	nSec	50% TTL - 90% / 10% RF
Transition (Rise/Fall) Time		34		nSec	10% / 90% or 90% / 10% RF
Switching (Video) Transients		32	100	mV	Peak Value
Intercept Points	2nd 3rd	+31 +23		dBm	80 MHz / 30 MHz 45 MHz / 30 MHz
RF Power	Operate No Damage		+11.2 +10 +21	dBm	1 dB Compression
Operating Temperature	0	+25	+65	°C	TA

