

FEATURES

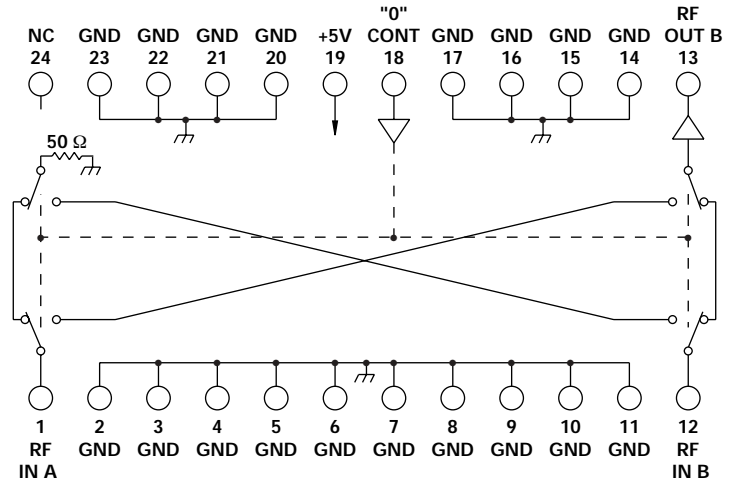
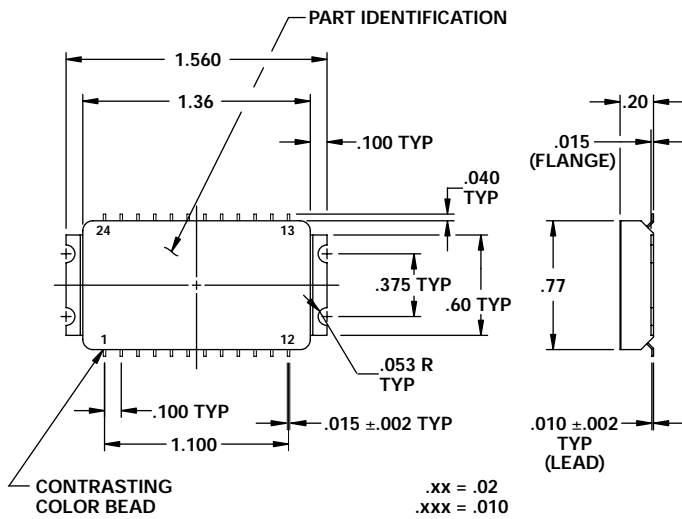
- 50 - 70 MHz
- SPACE Application
- Hermetic Package
- Radiation Tolerant, 100 K Rad
- Surface Mount



MODEL NO.
CSWT5103

GaAs Transfer Switch / Amplifier

HDI



GUARANTEED PERFORMANCE

Parameter	Min	Typ	Max	Units	Conditions	
Operating Frequency	50		70	MHz		
DC Current		17.5	20	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		±0.10	±0.5	dB		
Gain Tracking		±0.10	±0.25	dB	Normal to Crossed	
Gain Phase	50 MHz	162.5	165.5	168.5	DEG	
	60 MHz	157.5	160.5	163.5	DEG	
	70 MHz	152.0	155.0	158.0	DEG	
Control Current	High		±10	µA	V _{IH} = +2.75 V	
	Low		±10	µA	V _{IL} = +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	+31		dBm	80 MHz / 30 MHz	
	3rd	+23		dBm	45 MHz / 30 MHz	
RF Power	Operate	+11.2	+10	dBm	1 dB Compression	
	No Damage		+21	dBm		
Operating Temperature	0	+25	+65	°C	TA	

