

RF Devices Division
TRW Electronic Components Group

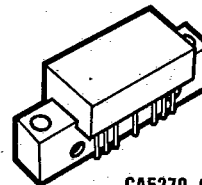
TRW

CA5270, CA5170

T-74-09.01

CATV Amplifiers

- 450 MHz
- 17.2 dB Gain
- Low Noise Figure
- Low Distortion
- All Gold Metallization



CA5270, CA5170

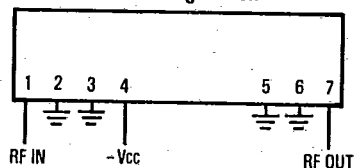
Electrical Characteristics for 75Ω Systems (T_{case} = 25°C, V_{cc} = 24V)

Symbol	Characteristics	Test Conditions	CA5270	CA5170
Gain	Gain	50 MHz	17.2±0.5 dB	17.2±0.5 dB
B.W.	Frequency Response	40-450 MHz	±0.2 dB	±0.2 dB
S.C.E.	Slope Cable Equivalent	40-450 MHz	+0.4 to +1.5 dB	+0.4 to +1.5 dB
X-Mod	Cross Modulation 60 Channels Flat @ 46 dBmV	CH 2	-59 dB	-55 dB
S.D.	Second Order Beat @ 50 dBmV	CH 2, H5, H14	-68 dB	-64 dB
C.T.B.	Composite Triple Beat 60 Channels Flat @ 46 dBmV	CH H22	-59 dB	-55 dB
N.F.	Noise Figure	450 MHz	7.5 dB	7.0 dB
R.L.	Return Loss Input/Output	40-450 MHz	18 dB	18 dB
P. Req.	Power Requirement	24V	210 mA (Typ.)	170 mA (Typ.)

Absolute Maximum Ratings

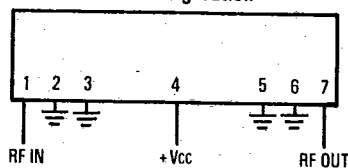
Symbol	Characteristics	CA5270	CA5170
V _{cc}	Supply Voltage	28V	28V
P _{IN}	RF Power Input	+66 dBmV	+66 dBmV
T _{st}	Storage Temperature	-40°C to +100°C	-40°C to +100°C
T _{op}	Operating Temperature (Sink)	-20°C to +100°C	-20°C to +100°C

Pin Configuration



CA5270R, CA5170R

Pin Configuration



CA5270, CA5170

RF Devices Division, TRW Electronic Components Group, 14520 Aviation Blvd., Lawndale, CA 90260 213.536.0888