

RF Devices Division
TRW Electronic Components Group

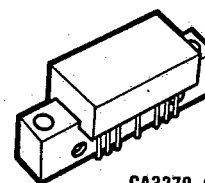
TRW

T-74-09-01

CA3270, CA3170

CATV Amplifiers

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



CA3270, CA3170

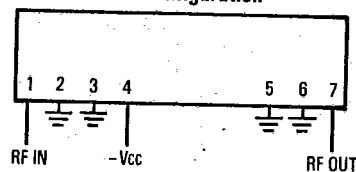
Electrical Characteristics for 75Ω Systems (T_{case} = 25°C, V_{cc} = 24V)

Symbol	Characteristics	Test Conditions	CA3270	CA3170
Gain	Gain	50 MHz	17.2±0.5 dB	17.2±0.5 dB
B.W.	Frequency Response	40-330 MHz	±0.15 dB	±0.15 dB
S.C.E.	Slope Cable Equivalent	40-330 MHz	+0.1 to +1.3 dB	+0.1 to +1.3 dB
X-Mod	Cross Modulation 40 Channels Flat @ 46 dBmV	CH 2	-63 dB	-59 dB
S.O.	Second Order Beat @ 50 dBmV	CH 2, 13, R	-70 dB	-68 dB
C.T.B.	Composite Triple Beat 40 Channels Flat @ 46 dBmV	CH H2	-65 dB	-61 dB
N.F.	Noise Figure	330 MHz	6.5 dB	6.0 dB
R.L.	Return Loss Input/Output	40-330 MHz	18 dB	18 dB
P. Req.	Power Requirement	24V	210 mA (Typ.)	170 mA (Typ.)

Absolute Maximum Ratings

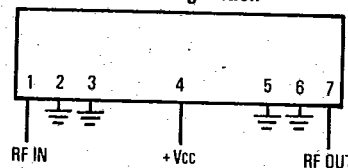
Symbol	Characteristics	CA3270	CA3170
V _{cc}	Supply Voltage	28V	28V
P _W	RF Power Input	+66 dBmV	+66 dBmV
T _{st}	Storage Temperature	-40°C to +100°C	-40°C to +100°C
T _{op}	Operating Temperature (Sink)	-20°C to +100°C	-20°C to +100°C

Pin Configuration



CA3270R, CA3170R

Pin Configuration



CA3270, CA3170