

RF Devices Division  
TRW Electronic Components Group

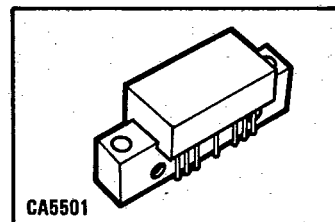


T-74-09-01

CA5501

## CATV Amplifiers

- Power Plus (+3dB Output)
- 450 MHz
- 18 dB Gain
- Low Noise Figure
- All Gold Metallization



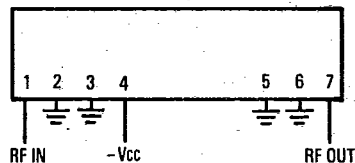
Electrical Characteristics for 75Ω Systems (T<sub>CASE</sub> = 25°C, V<sub>CC</sub> = 24V)

Symbol	Characteristics	Test Conditions	CA5501
Gain	Gain	50 MHz	18.5±0.5 dB
B.W.	Frequency Response	40-450 MHz	±0.2 dB
S.C.E.	Slope Cable Equivalent	40-450 MHz	+0.3 to +1.5 dB
X-Mod	Cross Modulation 60 Channels Flat @ 46 dBmV	CH 2	-65 dB
S.O.	Second Order @ 50 dBmV	CH 2, H5, H14	-70 dB
C.T.B.	Composite Triple Beat 60 Channels Flat @ 46 dBmV	CH H22	-65 dB
N.F.	Noise Figure	50 MHz 450 MHz	5.0 dB 7.0 dB
R.L.	Return Loss Input/Output	40-450 MHz	18 dB
P. Req.	Power Requirement	24V	425 mA (Typ.)

### Absolute Maximum Ratings

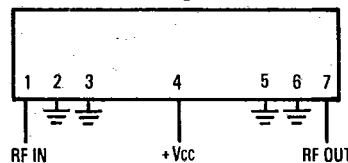
Symbol	Characteristics	CA5501
V <sub>CC</sub>	Supply Voltage	28V
P <sub>IN</sub>	RF Power Input	+65 dBmV
T <sub>ST</sub>	Storage Temperature	-40°C to +100°C
T <sub>OP</sub>	Operating Temperature (Sink)	-20°C to +100°C

Pin Configuration



CA5501R

Pin Configuration



CA5501