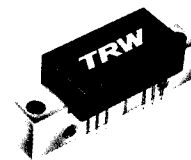


CATV Return Amplifiers

- Return Amplifiers
- 18.5/22.0 dB Gain
- 5-200 MHz
- 4.5/5.0 dB Noise Figure
- Low Distortion
- All Gold Metalization

CA4418
CA4422

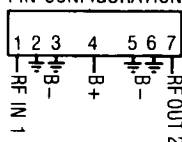
Absolute Maximum Ratings

SYMBOL	CHARACTERISTICS	CA4418	CA4422
V _{CC}	Supply Voltage	28V	28V
P _{IN}	RF Power Input	+65 dBmV	+60 dBmV
T _{ST}	Storage Temperature	-40°C to +100°C	-40°C to +100°C
T _{OP}	Operating Temperature	-20°C to +100°C	-20°C to +100°C

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

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	CA4418	CA4422
Gain	Gain	10 MHz	18.5±0.5 dB	22.0±0.6 dB
B.W.	Frequency Response	±0.25 dB	5-200 MHz	5-200 MHz
S.C.E.	Slope Cable Equivalent	5-200 MHz	+0.2 to -0.5 dB	+0.2 to -0.5 dB
X-Mod	Cross Modulation @ 50 dBmV	26 CH Flat	-64 dB	-64 dB
S.O.	Second Order	50 dBmV	-72 dB	-72 dB
T.B.	Triple Beat	50dBmV, 120MHz 50dBmV, 200MHz	-84 dB -82 dB	-84 dB -82 dB
C.T.B.	Composite Triple Beat 26 CH Flat @ 50 dBmV		-65 dB	-65 dB
N.F.	Noise Figure	200 MHz	5.0 dB	4.5 dB
R.L.	Return Loss Input/Output	5-150 MHz 150-200 MHz	20 dB 18 dB	20 dB 18 dB
P. Req.	Power Requirement	24V	160mA (Typ.) 180mA (Max.)	200mA (Typ.) 220mA (Max.)

PIN CONFIGURATION



13-10

CA4418
CA4422