

Detector Video Amplifiers With Removable Connectors

7770V Series

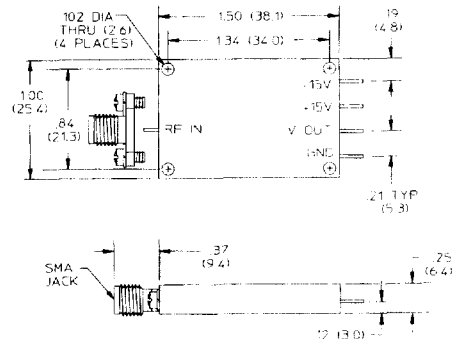
V2.00

Description

The 7770V series of detector video amplifiers combine excellent CW and pulse performance with low standby current drain in a stripline-microstrip compatible package, exhibiting square law performance from T_{SS} to the -10 dBm region, and linear performance beyond. These DVA's are useful for accurate power and signal monitoring as well as pulse timing applications.

The low mass drop-in package facilitates motherboard subsystem integration of multiplexed and diversity power measurement, threshold detection, direction finding and communications schemes.

Mechanical Outline (Top View)



Dimensions in () are in mm. Tolerance: .xxx = ±.005
.xx = ±.02

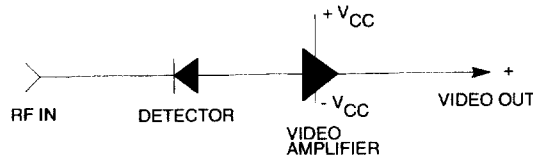
Specifications*

Frequency Range (GHz)	Video ^{2,4} Output Typ. (mV)	VSWR ³ Typ.	Flatness Max. (dB)	T_{SS} ¹ Typ. (-dBm)	Video ⁵ Output Max. (Volts)	Video ⁵ Rise Time Typ. (nS)	Current ⁶ Drain (Standby) Max.(mA)	Part Number ¹
1.0-2.0	200	2.0:1	± 0.5	36	10	50	±35	7770V-0020
2.0-18.0	200	3.0:1	±1.5	35	10	50	±35	7770V-0023

Notes:

1. Normally supplied with positive (+) voltage output.
2. Video output at -20 dBm RF power input. Other video amplifier gain options available. Consult factory.
3. VSWR measured at -20 dBm RF power input.

4. Measured into 100 ohm external video load resistance (R_L).
5. Video pulse rise time measured at -20 dBm RF power input into 100 ohm, external load resistance (R_L).
6. Power supply, dc ±15 volts.



Specifications Subject to Change Without Notice.

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