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Product Brief

Plessey unveils 500MHz Logarithmic/Limiting amplifier with 75dB dynamic range

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Plessey Semiconductors has introduced the PS13201 Logarithmic/Limiting Amplifier, a pin-for-pin, drop-in compatible replacement for the original Plessey SL3522 log amp.

The PS13201 Log Amp is a monolithic seven stage successive detection logarithmic amplifier IC for use in the 100MHz to 500MHz frequency range.

It features an on-chip video amplifier with provision for external adjustment of log slope and offset. It also features a balanced RF output. The PS13201 operates from supplies of $\pm 5V$. The PS13201 is specified across the military temperature range of $-55^{\circ}C$ to $+125^{\circ}C$.

Main features:

- 75dB Dynamic Range
- Surface Mount SO Package
- Adjustable Log Slope and Offset
- 0dBm RF Limiting Output
- 60dBm Limiting Range
- 2V Video Output Range
- Low Power (Typ. 1W)
- Temperature Range (TCASE) $55^{\circ}C$ to $+125^{\circ}C$

Applications:

- Ultra Wideband Log Receivers
- Channelized and Monopulse Radar
- Instrumentation

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	$\pm 6.0V$
Storage Temperature	$-65^{\circ}C$ to $+175^{\circ}C$
Junction Temperature	$+175^{\circ}C$
Thermal Resistance	
Die-to-case	$15.5^{\circ}C/W$
Die-to-ambient	$76.5^{\circ}C/W$
Applied DC voltage to RF input	$\pm 400mV$
Applied RF power to RF input	$+15dBm$

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