

EN ISO9001

**Pascall**

**MULTI-CARRIER IF LINE  
COMPENSATING  
AMPLIFIER (Receiving)**

[www.pascall.co.uk](http://www.pascall.co.uk)

## Multi-carrier IF Line Compensating Amplifier (Receiving)

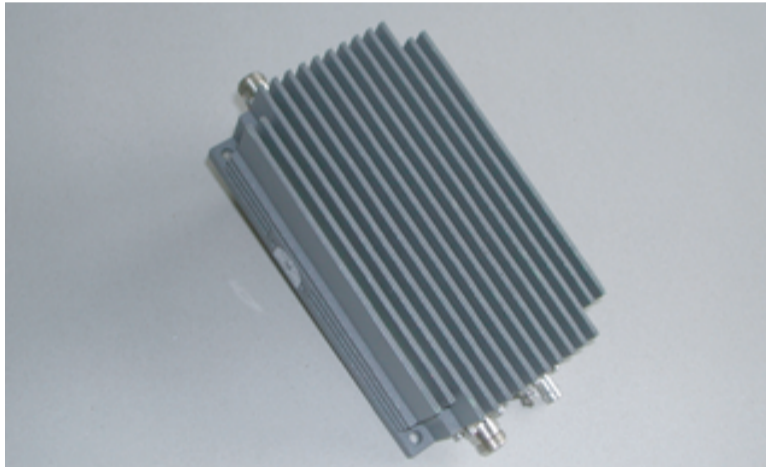
Reduces Installation Cost

MTBF 150,000 Hours

Excellent IM performance

Incorporates a Bias Tee

0.4ns Group Delay



Pascall Multicarrier Line Compensation Amplifiers provide IF gain and cable loss compensation for broadband microwave wireless systems. They are ideally suited for use in point to multipoint LMDS systems.

Significant installation cost savings can be achieved by the use of smaller diameter cable to connect the ground level enclosure to the masthead microwave Receiver or Transceiver.

Pascall Line Compensation Amplifiers minimise the effects of cable loss and cross-band slope without introducing any significant degradation of the multi-carrier signal.

Designed for operation from the standard telecommunications -48 volt DC supply, the amplifier incorporates a bias tee to enable DC power to be supplied to the masthead unit via the input IF cable.

Pascall is able to design other line compensating amplifiers to meet specific customers requirements for both civil and military applications.

A company within the Electronics  
Division of INTELEK plc

**INTELEK**



FM13274  
BS EN ISO 9001

## Multi-carrier IF Line Compensating Amplifier (Receiving)

This amplifier incorporates a bias Tee for the supply of DC power to masthead receiver unit.

### DATA

Frequency Range	400 to 850 MHz
Input/Output Impedance	50 Ohms
Gain at 400 MHz	-1.0, +3.0, +7.0 & 11.0dB (Four switched settings)
Gain Slope (All Gain Settings)	Gain increases linearly from 400 to 850 MHz by 3db
Gain variation	± 1.5dB of set value (W.R.T. Temp./Slope/Gain)
Noise figure (at 11dB gain)	<8dB @ +25°C <9dB max @ +50°C
1dB Compression point	+23 dBm min.
Output spurious (Harmonics & IM Products)	-50dBc inband, relative to 2 carriers @ +8 dBm Other spuri $< -80$ dBc
Group delay	<0.4 ns, within any 36 MHz band
VSWR (Input & Output)	1.4 : 1 Max.
Power delivery down cable	Via RF input socket
DC Input Voltage	-35 to -57.5V (-48V nominal)
DC Input connector	BNC 50 Ohms
DC Input Current (excluding masthead supply)	250 mA at nominal voltage
Max. DC delivery to RF I/P socket	2 Amps
DC Power Input Noise (DC to 20 MHz)	1.5 Volts p-p max. (common code)
MTBF	>150,000 Hours
Temperature - operating	+5 to +40°C
- storage	-40 to +85°C
Humidity	5 to 90% RH

**Pascall**

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Pascall Electronics Limited, Tel +44 (0) 1983 817300  
Westridge Business Park, Fax +44 (0) 1983 564708  
Cothey Way,  
Ryde, Isle of Wight  
PO33 1QT UK

The right is reserved to amend the specifications of the products without notice

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