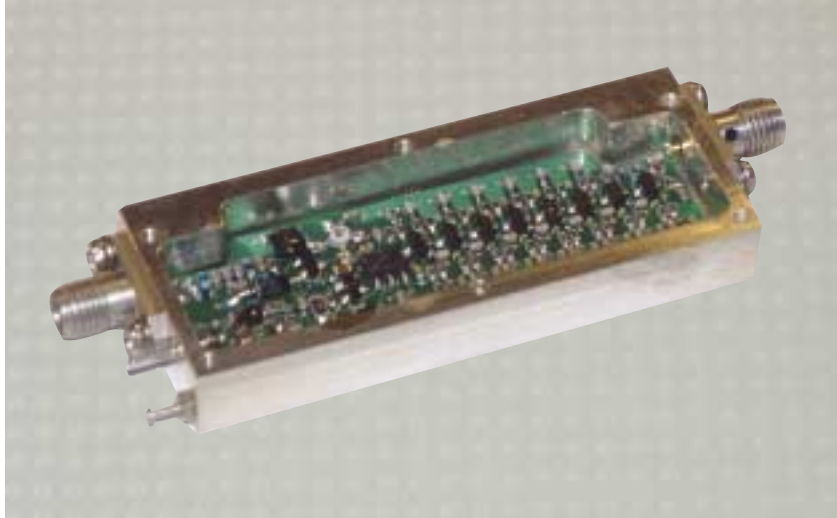


UMCPL SERIES CONSTANT PHASE IF LIMITING AMPLIFIERS



- 2° Typical Phase Shift over Dynamic Range**
- ±1dB Output Variation over Temperature**
- 70dB Dynamic Range**
- Matched Sets Available**

The Pascall UMCPL series of Constant Phase IF Limiting Amplifiers is designed for applications where phase deviations must be minimised over a wide dynamic range.

This range incorporates multiple limiting stages, output filters, buffered output stages and temperature compensation to minimise variations of phase and limited output level. Typical phase shift of 2° over the dynamic range and output level variation of ±1dB over the temperature range is achieved.

The UMCPL range of limiting amplifiers is constructed in lightweight alloy housings and designed to withstand harsh mechanical environments.

The standard range operates over a case temperature range of -40°C to +85°C but can be specified for other temperature ranges.

The standard supply voltages are -12 volts or -15 volts with options available for positive supply rails.

Pascall is able to supply matched sets of limiting amplifiers for the multi-channel systems commonly found in ELINT/SIGINT receivers and other EW equipments.

Pascall has a large range of IF signal processing components covering centre frequencies from 10MHz to 1GHz and is also able to design models to meet customers' specific requirements.

UMCPL SERIES CONSTANT PHASE IF LIMITING AMPLIFIERS

Input Dynamic Range	-70 to 0dBm
Phase Shift over Dynamic Range	5° maximum
Output Power	+10dBm nominal
Variation over Dynamic Range	
@+25°C	±0.5dB maximum
over -45°C to +85°C	±1.0dB maximum - on mean value @ 25°C
Phase tracking	
@+25°C	±2° pairs, ±3° triplets
over -45°C to +85°C	±4° pairs, ±6° triplets
Input / Output V.S.W.R.	1.5 : 1 maximum
Power Requirements	-12 or -15 volts @ 90mA maximum
Connectors	SMA standard
Size	63.5 x 25.4 x 10.0 nominal

Standard Range

Model Number	Operating Frequency MHz	Minimum Bandwidth MHz
UMCPL2105	21.4	5
UMCPL3010	30	10
UMCPL6020	60	20
UMCPL7020	70	20
UMCPL12020	120	20
UMCPL16040	160	40

Ordering Information

UMCPL-XXXXX-XXX-XT

