LIMITERS - CPL SERIES

**Centre frequencies in the
range 10-160MHz**
**Limited IF output power
+10 dBm Nominal**
Positive supply models available

**Constant Phase IF Limiter
5 Degree Typical Phase Shift
over the Dynamic Range
70 dB Dynamic Range
±1dB Output Level Variation
over -45 Centigrade to +85 Centigrade
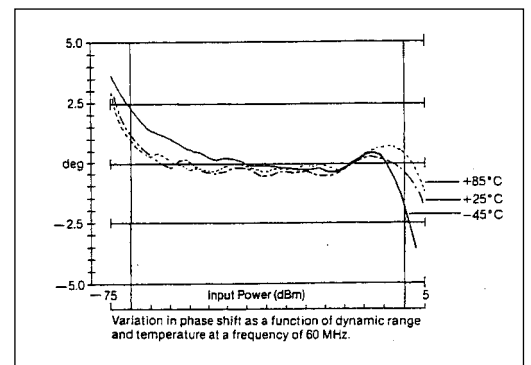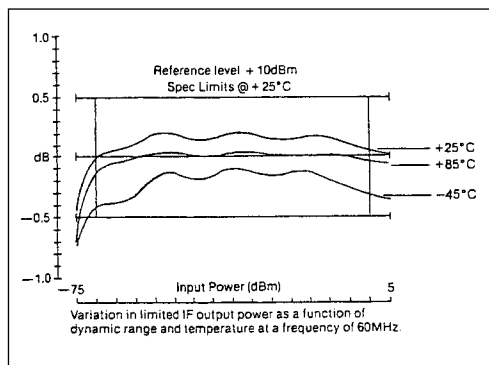Single Channel and Matched
Channel Models**

Pascall's range of constant phase IF Limiting amplifiers is designed for applications where phase deviation must be minimised over a wide dynamic range. All models are available as single units, as matched pairs or as triplets.

The CPL Series IF Limiting amplifiers incorporate multiple limiting stages, output filters, buffered output stages and a temperature compensation to minimise variations in phase deviations and limited IF output level.

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Input Dynamic Range	-70 to 0dBm (-65 to 0dBm for 160MHz models)
Phase Shift over Dynamic Range	5 deg max
Output Power	+10dBm nominal
Variation over Dynamic Range @ +25ºC over operating temp. range 2	±0.5dB max ±1dB on mean value at +25ºC
Phase Tracking @ +25ºC over -45ºC to +85ºC	±2 deg for pairs, ±3 deg for triplets ±4 deg for pairs, ±6 deg for triplets
Input/Output VSWR	1.5:1 max
Power Requirements	-12V or -15V at 150mA max
Operating Temperature Ranges	Range 1 0 to +60ºC Range 2 -45 to +85ºC Range 3 -55 to +100ºC Range 4 Customer specified
Connectors	SMA, SMB or SMC
Weight	80g (2.8 oz) max

Model No. CPL	Operating Freq. MHz	Minimum Bandwidth MHz
CPL-2105	21.4	5
CPL-3010	30	10
CPL-6020	60	20
CPL-7020	70	20
CPL-12020	120	20
CPL-16020	160	20
CPL-16040	160	40

Variation in limited IF output power as a function of dynamic range and temperature at a frequency of 60MHz.

Variation in phase shift as a function of dynamic range and temperature at a frequency of 60 MHz.

Ordering Information

CPL-XXXXX-XXX-XT

Tracking set	2 = Pair 3 = Triple
Temperature	1 = 0 to +60ºC 2 = -45ºC to +85ºC 3 = -55ºC to +100ºC 4 = Customer specified
Supply Voltage	1 = -12V or 2 = -15V
Connectors	A = SMA, B = SMB, C = SMC
Bandwidth MHz	
Centre Frequency MHz	
Package style	