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23cms Down Converter to 2m

Manufactured in The Netherlands the PE1CMO 23cm Converter is a multi-purpose Converter for receiving 23cm signals using a Receiver or Transverter Rx (144-146Mhz). The local oscillator is a low noise VCO with a small range. The PLL reference is 2.5ppm with extended temperature range, normally the stability is within 1ppm (1kHz). The RF front end uses a Helical filter for a low loss but high performance band pass filter. The front end can be tuned from 1250 – 1300 MHz.

Dynamic Range : The dynamic range is excellent, the mixer is a 17dBm medium level mixer so that the total output IP3 is around + 32dBm.



Specifications :-

Tuning Range	1250-1300 MHz	Band with filters 25MHz
Gain	22dB	
Ripple	+/- 1dB	
Noise	3dB	
Output IP3	32 dBm	
Local Oscillator	1152 MHz	(144 MHz out) for 1296 MHz
Stability	1 ppm normal	2.5 ppm from -10/+60 C
Power	8 –12 V dc	250mA
LO Drive	17.5dBm	(60mWatt)
Antenna LO Output	Lower than -55dBm	International rules say -50dBm

Input connector	N Female	SMA on request *
Output connector	N Female	SMA on request *
Dimensions	102 x 60 x 36mm	Including flanges

The Converter is built in a waterproof and RF tight aluminium case with mounting flanges.

Power input: Feed through and solder tag.

Schematics are not available.

* Available on special order.