O-PCA-9550 - PULSE COMPRESSION ASSEMBLY

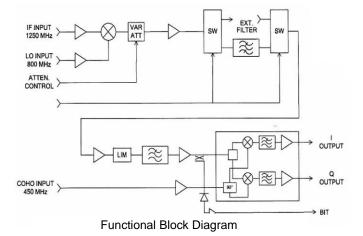
TECHNICAL FEATURE

FEATURES

- Integrated frequency conversion, level control, gain and I/O signal demodulation
- Superior signal linearity and accuracy

PERFORMANCE

IF Input Frequency Range	1250 +/-150 MHz
LO Frequency	800 MHz
2nd IF Frequency	450 MHz
Attenuation 31.5 d	B range/0.5 dB steps
Attenuation Set Time	1us max
(Control input to attenuation settled output)	
VSWR	1.5:1 max
I/O Balance	0.2 dB max
I/O Phase Balance	+/-2° max
I/0 Video Bandwidth	DC -110 MHz min.
Operating Voltage (input)	+/-15 VDC
RF Connection Interface	SMP Male
Operating Temperature Range	40 to +71°C
Package Size	3.83" x 5.00" x 1.00"





DESCRIPTION

The O-PCA-9550 Pulse Compression Assembly is an integrated solution for advanced radar processing and reception. The unit provides integrated frequency conversion, filtering, signal level control (AGC), and I/Q demodulation in a single integrated assembly. Provision is made for use of an external correlation filter.

This unit exemplifies our integration capability in applying our wide experience in component design to higher levels of integration. Crane Aerospace & Electronics, Electronics Group, Microwave Systems Solutions can design and build complex products for your needs.



Microwave Solutions – Signal Technology 28 Tozer Road, Beverly, MA 01915 +1.978.524.7200 • mw@crane-eg.com www.craneae.com/mw



The information in this document is a derivative of a document cleared by the Department of Defense (DoD) Office of Security Review (OSR) for public release. OSR case number 10-S-0983 dated March 11, 2010. DS_O_PCA_9550 Pulse Complression Assembly_MW_031110.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2011 Crane Electronics, Inc. All rights reserved.