Pulse Compression Assembly - Model O-PCA-9550

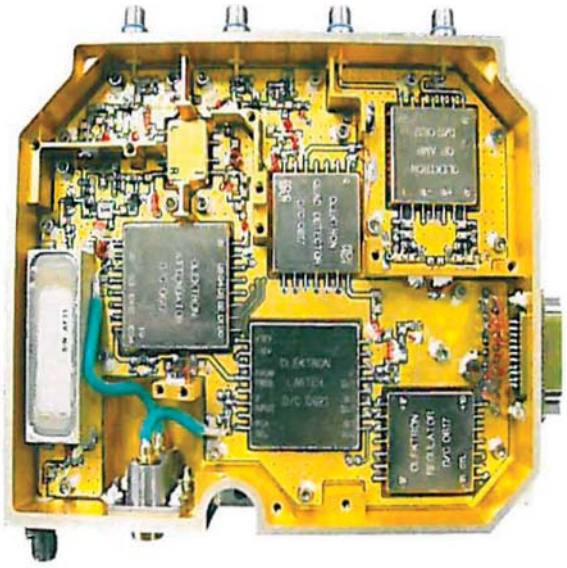
TECHNICAL FEATURE

Features

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

Performance

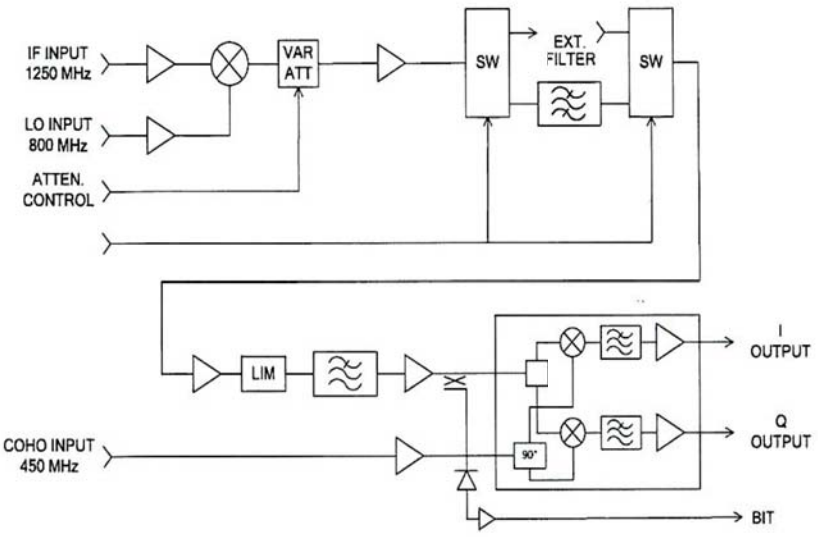
IF Input Frequency Range..... 1250 +/-150 MHz
LO Frequency ..... 800 MHz
2nd IF Frequency..... ..... 450 MHz
Attenuation ..... 31.5 dB range/0.5 dB steps
Attenuation Set Time..... 1us max
(Control input to attenuation settled output)
VSWR .....1.5:1 max
I/O Balance ..... 0.2 dB max
I/O Phase Balance..... +/-2° max
I/O 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.



Functional Block Diagram