Technical Feature

I/Q Phase Detector
O-MFA-1108

- Integrated I/Q Phase Detector
- Includes
  - Selectable IF Bandwidth Filters
  - BIT Functions
  - IF Gain Control
  - Analog I/Q Outputs
  - Internal Power Conditioning/Switching Power Supply
  - Variable Gain

This I/Q phase detector provides analog I/Q voltage signals for a comparison of 2 IF signals operating at 60 MHz. A selectable IF bandwidth is utilized to improve measurement signal to noise ratio and measurement sensitivity.

Applications include radar and EW system coherent conversion. Input signal phase and amplitude information is presented.

Technical Specifications

- Frequency Range: 55-65 MHz
- Input Signal Level: -70 to 0 dBm
- LO Frequency Range: 60 +/- 0.1 MHz
- Gain: 15 dB min.
- Noise Figure: 10 dB max.
- Phase Balance: +/- 1.5° max.
- Amplitude Balance: +/- 0.2 dB max.
- Bandwidths (selectable): 0.6 / 0.95 MHz
- Size: 8.3" x 3.8" x 0.9"
- Operating Temperature Range: -25 to +85 °C