990 Series Balanced Phase Detectors

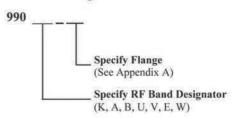




Features

- · High Sensitivity
- Good RF Isolation
- High-Reliability Beam-Lead Diodes

Ordering Information



Please specify center frequency at time of order.

Description

Mi-Wave's 990 series balanced phase detectors feature a pair of Schottky diodes that that mix or beat two input signals at the same frequency to produce a DC output voltage proportional to the phase difference of the input signals. Matching the two Schottky diodes ensures low DC offset results as well as good port-to-port isolation.

The 990 series phase detectors can be used in applications such as phased-lock loops, phaseencoded systems and phase bridges.

Technical Specifications

Model Number	990K	990A	990B	990U	990V	990E	990W
Frequency Band (GHz)	18.0- 26.5	26.5- 40.0	33.0- 50.0	40.0- 60.0	50.0- 75.0	60.0- 90.0	75.0- 110.0
Waveguide	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Sensitivity ¹ (mV/0), Typ.	4	4	4	3	3	2	2
Bandwidth (%), Typ.	4	4	4	4	4	4	4
RF Isolation (dB), Typ.	20	20	20	20	20	20	20
AM Suppression (dB), Typ.	20	20	20	20	20	20	20

Typical Transfer Characteristics

