

## Description

Mi-Wave's 990 Series Balanced Phase Detectors feature a pair of Schottky diodes 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.

- *High Sensitivity*
- *Good RF Isolation*
- *High-reliability Beam-lead Diodes or MMIC's*

The 990 Series Phase Detectors can be used in applications such as phased-lock loops, phase-encoded systems and phase bridges.

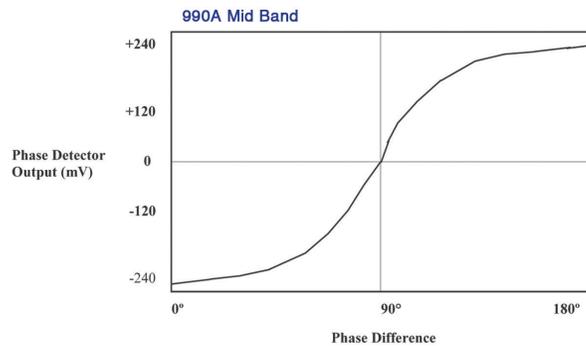
Mi-Wave 991 Series Quadrature phase detector is available in specific bands.

Please consult for specifications.

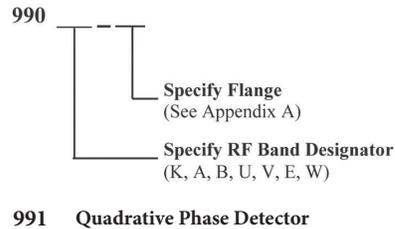


Technical Specifications							
Model Number	990K	990A	990B	990U	990V	990E	990W
Frequency Input (GHz)	18.0–26.5	26.5–40.0	33.0–50.0	40.0–60.0	50.0–75.0	60.0–90.0	75.0–110.0
Waveguide	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Sensitivity <sup>1</sup> (mV/o), Typ.	4	4	4	3	3	2	2
Bandwidth (%), Typ.	4	4	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



## Ordering Information



**NOTE:**

Please be sure to specify frequency at time of order.