



**HM 75-110**  
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Part-No.: 02100044

## Product Description

### Description:

RPG offers these broadband harmonic 3-port mixers. The HM 75-110, as part of the extended harmonic mixer series, covers the frequency band from 75-110 GHz.

### Features:

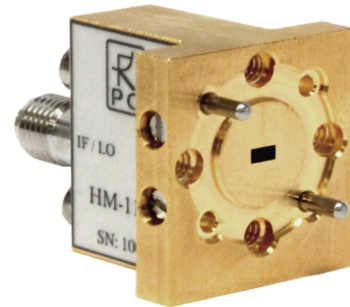
- Planar diode design
- Low conversion loss

### Applications:

- General RF Power and Frequency measurements
- Electron Spin Resonance (ESR)
- Spectrum Analyzers
- Network Analyzers
- Radiated Emission measurements
- ZTX/ZRX Systems and Compact Ranges
- Antenna Measurements

### Accessories:

- Precision calibrated attenuator
- External isolator for optimum RF-input match



## Technical Specifications

|                               |                              |
|-------------------------------|------------------------------|
| Frequency Range [GHz]         | 75 - 110                     |
| RF Port                       | WR10 (UG387/UM)              |
| VSWR                          | 2.4:1                        |
| Max. Input Power [dBm]        | +0                           |
| LO Input Port                 | SMA-F                        |
| Harmonic Number               | 8 or 10                      |
| LO Frequency Range [GHz]      | 9.37 - 13.75 or 7.5 - 11 GHz |
| Max. Input Power [dBm]        | +13 to +16                   |
| IF Output Port                | SMA-F                        |
| IF Frequency Range            | 10 MHz to 2 GHz              |
| 1dB compr. Point [dBm (typ.)] | -3                           |
| Conversion loss               | typ. 20DB, with #8           |



Typical Performance

