

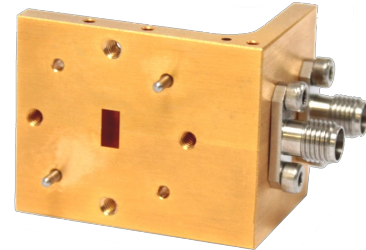


**HM 33-50**  
**Harmonic Mixer 33-50 GHz**  
Part-No.: 02100032

**Product Description**

**Description:**

RPG offers these broadband harmonic 3-port mixers. The HM 33-50, as part of the extended harmonic mixer series, covers the frequency band from 33-50 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]	33 – 50
RF Port	WR22.4 (UG383/U)
VSWR	
Max. Input Power [dBm]	0 dBm
LO Input Port	SMA-F
Harmonic Number	4
LO Frequency Range [GHz]	8.25 to 12.5
Max. Input Power [dBm]	+15 (max. +18)
IF Output Port	SMA-F
IF Frequency Range	5 MHz to 3.2 GHz
1dB compr. Point [dBm (typ.)]	-10
Conversion loss	see plot

**Typical Performance**

