



**HM 140-220**  
**Harmonic Mixer 220 GHz**  
Part-No.: 02100034

**Product Description**

**Description:**

RPG offers these broadband harmonic 3-port mixers. The HM 140-220, as part of the extended harmonic mixer series, covers the frequency band from 140-220 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]	140 - 220
RF Port	WR5.1 (UG387/UM)
VSWR	2.5 : 1
Max. Input Power [dBm]	0
LO Input Port	SMA-F
Harmonic Number	14 16
LO Frequency Range [GHz]	10 to 15.7 8.75 to 13.75
Max. Input Power [dBm]	+10 to +12
IF Output Port	SMA-F
IF Frequency Range	5 MHz to 3.2 GHz
1dB compr. Point [dBm (typ.)]	-5
Conversion loss	see plot



**Typical Performance**

**HM-220 - Conversion Loss**

