

Product Data Sheet – April 2011 Iss 1 Rev 1

General Description

The TXR90 is a broadband active frequency multiplier covering the frequency band 60 – 90 GHz. The standard version has a typical output power of +3 dBm. Higher power versions with reduced bandwidth can be customized. The output signal is down converted to a 5 to 1000 MHz IF frequency for phase sensitive measurements.

TXR90 transmitters are equipped with UG-387 waveguide flange and delivered with testport adapters and power supplies. Matched feed horn antennas are part of RPG's product portfolio.



Key Features

- **full band WR12 (60 – 90 GHz)**
- **output power +3 dBm typical**
- **no mechanical tuners**
- **passive cooling**

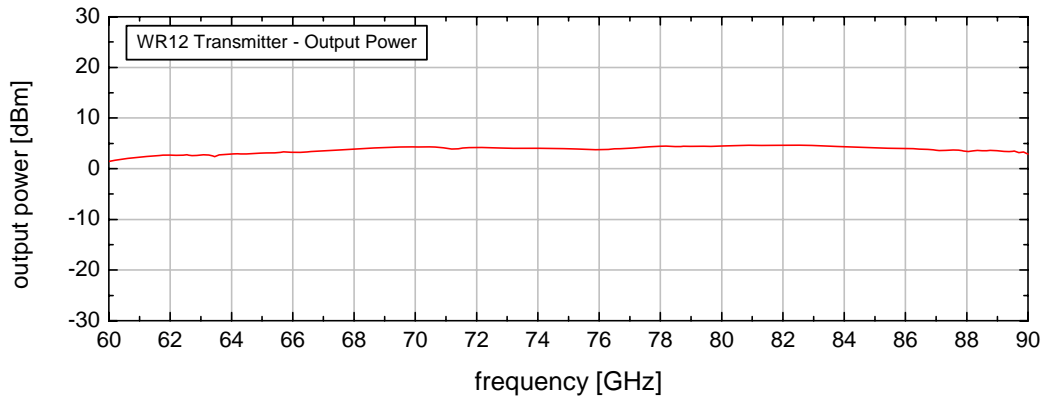
Order Code: TXR90

option	description
-A	TXR90 equipped with additional tunable waveguide attenuator (WTA-series)
TX	see TX90 product datasheet for TXR90 without reference port

Technical specifications*	min	typical	max	unit
frequency range	60		90	GHz
output power	+0	+3		dBm
output match		-15		dB
RF multiplication factor		6		
RF frequency range	10		15	GHz
RF input power		+7		dBm
RF input connector		SMA(f)		
LO frequency range	10		15	GHz
LO multiplication factor		6		
LO input power		+7		dBm
LO input connector		SMA(f)		
IF frequency range	5		1000	MHz
IF frequency power level		-15	-13	dBm
IF output connector		SMA(f)		
supply voltage		+9		VDC
supply current		500		mA
power supply voltage	100		240	VAC

Absolute maximum ratings	max	unit
RF / LO input power	+10	dBm
supply voltage	+12	V
case temperature	+85	°C

*Contact RPG for TXR modules with modified specifications



Outline Dimensions

