

Product Data Sheet – April 2011 Iss 1 Rev 1

General Description

The TX90 is a broadband active frequency multiplier covering the frequency band 60 – 90 GHz. The standard version has a typical output power of +5dBm. Higher power versions with reduced bandwidth can be customized.

TX90 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 +5 dBm typical**
- **no mechanical tuners**
- **passive cooling**
- **RF chopping possible**

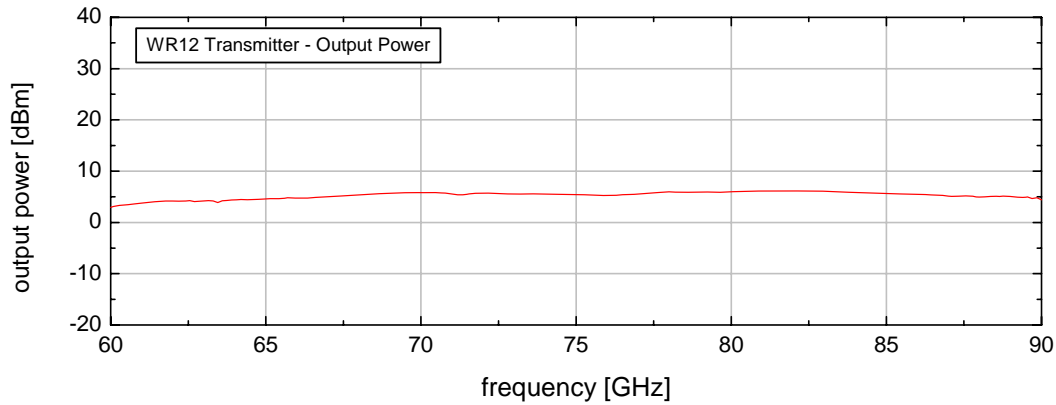
Order Code: TX90

option	description
-A	TX90 equipped with additional tunable waveguide attenuator (WTA-series)
TXR	see TXR90 product datasheet for TX90 with additional reference port

Technical specifications	min	typical	max	unit
frequency range	60		90	GHz
output power	+2	+5		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)		
supply voltage		+9		V _{DC}
supply current		500		mA
power supply voltage	100		240	V _{AC}

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

*Contact RPG for TX modules with modified specifications



Outline Dimensions

