

General Description

The TX500 is a broadband active frequency multiplier covering the frequency band 325 – 500 GHz. The standard version has a typical output power of -16 dBm. Higher power versions with reduced bandwidth can be customized.

TX500 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 WR2.2 (325 – 500 GHz)
- output power -16 dBm typical
- no mechanical tuners
- passive cooling
- RF chopping possible

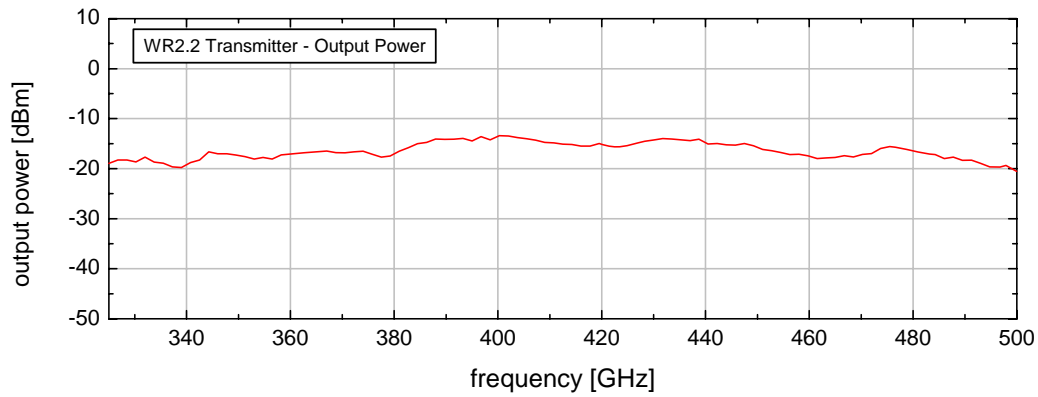
Order Code: TX500

option	description
-A	TX500 equipped with additional tunable waveguide attenuator (WTA-series)
TXR	see TXR500 product datasheet for TX500 with additional reference port

Technical specifications	min	typical	max	unit
frequency range	325		500	GHz
output power	-22	-16		dBm
output match		-6		dB
RF multiplication factor		30		
RF frequency range	10.8		16.7	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

