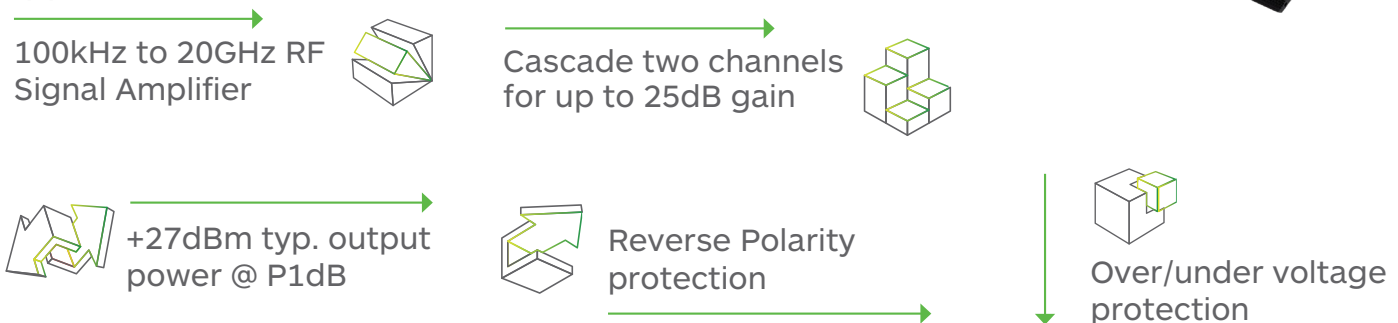
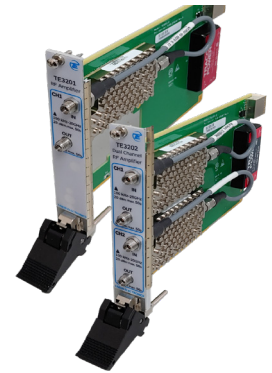


## PRELIMINARY

## MODEL TE3201/2

## PXIe based Single/Dual Channel 20GHz 30dBm RF amplifier

Model TE3201/2 is a single/dual channel RF amplifier in a single slot PXIe form factor that can operate from 100kHz to 20GHz, designed for high frequency, and high power signal amplification. With an ultra-high bandwidth of almost 20GHz and up to +30dBm power into 50 ohms, the TE3201/2 is the ideal complimentary amplifier to any signal source that needs an extended power boost for demanding applications.



## Enhancing Performance

The TE3201/2 was designed to extend the power range of the Tabor arbitrary waveform generators and RF signal generators for applications, requiring a higher output power to drive their DUT (Device Under Test). With the channels cascaded the TE3201/2 can provide up to 25dB gain and can reach a maximum saturated power of 30dBm into 50 ohms loads, without compromising signal integrity.

## Cost Effective Versatile Solution

While the TE3201/2 was designed with the Tabor units in mind, it can be used as a Standalone RF amplifier for any signal source. The TE3201/2 offers one or two channels in a compact and cost-effective solution for extending any signal source's power performance.

## Target Applications

Target applications for the TE3201/2 are diverse and include various RF applications, such as receiver testing, multi-tone testing, and general electronics and scientific applications. The new TE3201/2 is an ideal solution for virtually any wide bandwidth application that requires high power and high frequency signal amplification.

# MODEL TE3201/2

# PRELIMINARY

## PXIe based Single/Dual Channel 20GHz 30dBm RF amplifier

### Specification

RF CHARACTERISTICS			
RF Connectors:	2.92mm(K)		
Frequency Range:	100kHz to 20GHz		
Gain (in dB): Single Channel in TE3201/2	Min.	Typ.	Max.
100kHz to 100MHz:	10	12	14
100MHz to 3GHz:	10	12.5	13
3GHz to 9GHz:	8	10	11
9GHz to 20GHz:	6	8	9.5
Gain (in dB): Cascaded Channels of TE3202	Min.	Typ.	Max.
100kHz to 100MHz:	25	26	27
100MHz to 3GHz:	20	21	27
3GHz to 9GHz:	16	19	22
9GHz to 20GHz:	12	14	17
Input Return Loss:	14dB typ. (9dB Min.)		
Output Return Loss:	12dB typ. (6dB Min.)		
P1dB:	26dBm		
Psat:	29dBm		
Output IP3:	35dBm		
Noise Figure:	10dB		
Reverse Isolation:	50dB typ. (35dB Min.)		
Second Harmonic:	20dBc @ Pout +25 dBm		



RF Input Power:	
TE3201	20dBm Max.
TE3202	10dBm Max.
Protection:	Reverse Polarity, Over Voltage, Under Voltage, Over Current, and Open-Short Load

GENERAL	
Voltage:	+12V
Current Consumption:	
TE3201	+12V 1A
TE3202	+12V 2A
Power Dissipation:	
TE3201	11W typ.
TE3202	22W typ.
Dimensions:	Single slot PXIe
Weight:	
Without Package:	0.5 Kg
Shipping Weight:	1.5 Kg
Temperature:	
Operating:	0°C to +50°C
Storage:	-40°C to +70°C
Warm up time:	15 minutes
Humidity:	85% RH, non-condensing
Safety:	CE Marked, IEC61010-1:2010
EMC:	IEC 61326-1:2013
Calibration:	2 years
Warranty*:	3 year standard * 1 year standard in India

ORDERING INFORMATION	
MODEL	DESCRIPTION
TE3201	PXIe based Single Channel 20GHz
TE3202	PXIe based Dual Channel 20GHz 30dBm RF amplifier
CAS	Jumper cable for TE3202 for cascading CH1 and CH2

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