

# MODEL A10200

## 20GHz 30dBm RF Signal Amplifier

Model A10200 is an ultra-small footprint amplifier 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 A10200 is the ideal complimentary amplifier to any signal source that needs an extended power boost for demanding applications.



### Enhancing Performance

The A10200 was designed to extend the power range of the Tabor arbitrary waveform generators and RF signal generator for applications, requiring a higher output power to drive their DUT (Device Under Test). Combined with the A10200 the Lucid series generators offer a solution for demanding applications requiring up to 20GHz signals at up to +30dBm into 50 ohms loads, without compromising signal integrity.

### Cost Effective Versatile Solution

While the A10200 was designed with the Tabor units in mind, it can be used as a standalone amplifier for any signal source. The A10200 offers a compatible, compact and cost-effective RF solution for extending any signal source’s power performance.

### Target Applications

Target applications for the A10200 are diverse and include various RF applications, such as receiver testing, multi-tone testing, and general electronics and scientific applications. The new A10200 is an ideal solution for virtually any wide bandwidth application that requires high power and high frequency signal amplification.

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### Specification

RF CHARACTERISTICS			
RF Connectors:	2.92mm(K)		
Frequency Range:	100kHz to 20GHz		
Gain (in dB):	Min.	Typ.	Max.
100kHz to 100MHz:	11	12	14
100MHz to 3GHz:	12	12.5	13
3GHz to 9GHz:	9	10	11
9GHz to 20GHz:	7	8	9.5
Input Return Loss:	14dB typ. (11dB Min.)		
Output Return Loss:	12dB typ. (8dB Min.)		
P1dB:	27dBm		
Psat:	30dBm		
Output IP3:	38dBm		
Noise Figure:	9dB		
Reverse Isolation:	50dB typ. (40dB Min.)		
Second Harmonic:	23dBc @ Pout +25 dBm		
RF Input Power:	27dBm Max.		
Protection:	Reverse Polarity, Over Voltage, Under Voltage, Over Current, and Open-Short Load		



GENERAL	
Vcc:	20-27V, 24V Nominal
Icc:	450mA typ.
Power Dissipation:	11W typ.
Dimensions:	40 x 30 x 85 mm
Weight:	
Without Package:	110 g
Shipping Weight:	1.25 kg
Temperature:	
Operating:	0°C to +40°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
A10200	20GHz 30dBm RF Signal Amplifier



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