

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:	1 / 3 year warranty plan

ORDERING INFORMATION

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