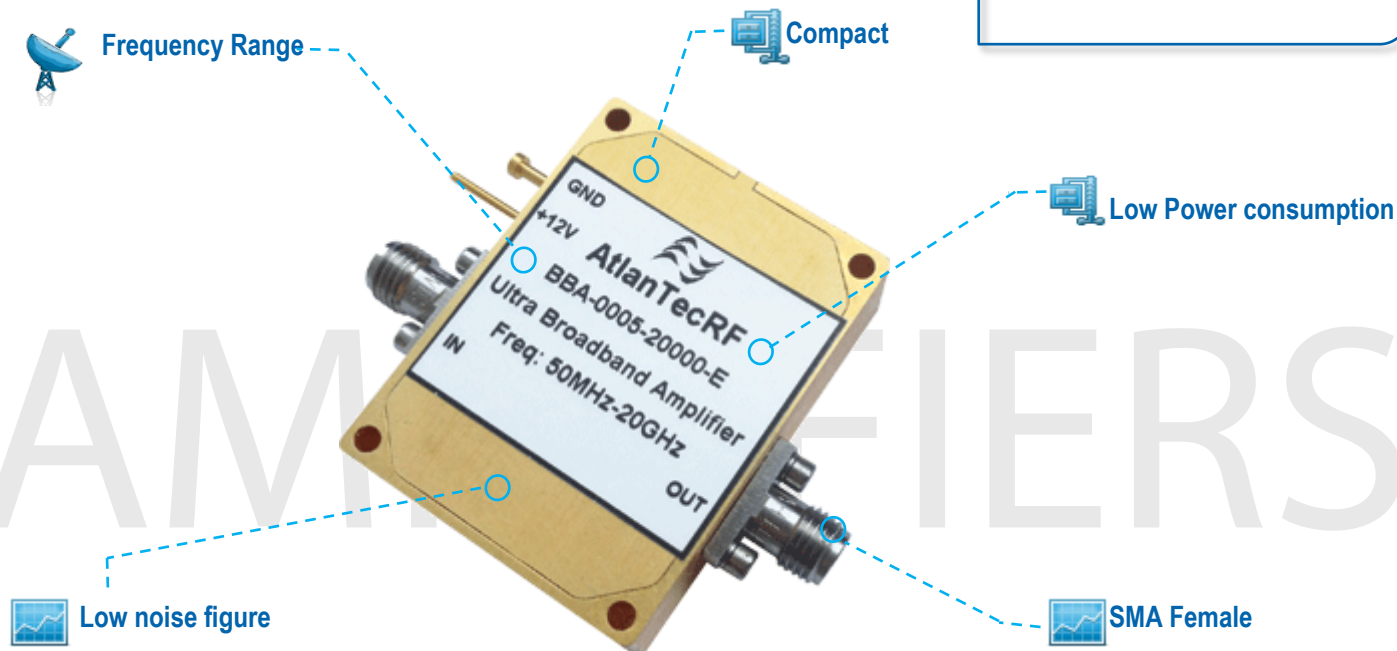


## Ultra Broadband Amplifier Model BBA-0005-20000

- Frequency Range 50MHz to 20GHz
- Low Noise Figure 1.8dB typ.
- Output Power 16dBm typ.
- Low Power Consumption
- Small Size



General Electrical Specifications	
Output Frequency	50MHz to 20GHz
Impedance	50 ohms
DC Supply	+12V @180mA
Max. Operating Voltage	+15V
Max. RF Input Power	0dBm
Operating Temperature	-45 to +85C
Storage Temperature	-55 to +125C
Altitude	30,000 ft. (Epoxy seal controlled environment)
(Optional)	60,000 ft. 1.0psi min. (Hermetically sealed un-
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per
Humidity	100% RH at 35C, 95% RH at 40C
Shock	20G for 11msc half sine wave, 3 axis both direc- tions
Input / Output Connector	SMA Female
Weight	160g
Size	1.18 x 1.58 x 0.47 inches (excl. connectors)
Finish	Gold Plated

Model No.	
BBA-0005-20000-E	Epoxy Sealed (Standard)
BBA-0005-20000-H	Hermetically Sealed (Option)

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Frequency Range (GHz)	0.05-0.2			0.2-10.0			10.0-20.0		
Gain (dB)	26	29		25	29		22	25	
Gain Flatness (dB)		+/-0.8	+/-1.0		+/-0.8	+/-1.0		+/-1.0	+/-1.5
Gain Variation over Temp. -45 to +85C (dB)		+/-0.5			+/-0.8			+/-1.0	
Noise Figure (dB)		3.0	4.5		1.8	2.5		2.5	4.0
Input VSWR		2.5			1.8	2		1.8	2
Output VSWR		1.8	2		1.5	1.8		1.5	1.8
Output Power (P1dB) (dBm)	16	18		15	17		13	15	
Saturated Output Power (Psat) (dBm)		19			18			16	
Output Third Order Intercept (IP3) (dBm)		26			27			25	
Supply Current (Vcc +12V) (mA)		130	180		130	180		130	180
Isolation S12 (dB)	60	65			60	65	50	55	

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.  
 Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



