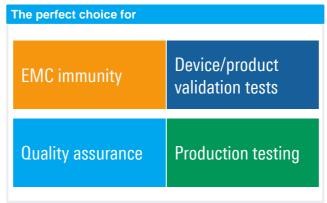
## R&S®BBA130 broadband amplifier

## The amplifier you can tune





Key specifications	
Frequency ranges	80 MHz to 1.0 GHz 0.69 GHz to 3.2 GHz 2.5 GHz to 6.0 GHz
Nominal output power 80 MHz to 1.0 GHz 0.69 GHz to 3.2 GHz 2.5 GHz to 6.0 GHz	100 W to 4200 W 45 W to 1200 W 22 W to 280 W
Nominal output load	50 Ω
Gain flatness	±3.8 dB (or better; see data sheet)
Gain adjustment range	> 15 dB
Bias	Class A through Class AB, continuous
Max. RF input level	max. +15 dBm

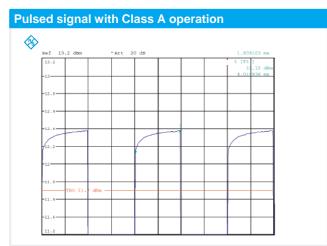
## Optimally tune to your specific application

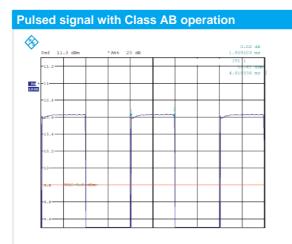
The R&S®BBA130 broadband amplifier is air-cooled and offers a variety of settings so you can optimally tune the output signal to your specific application. During operation, you can adjust the operating class for transistors between Class A and Class AB as well as choose between maximum output power or higher mismatch tolerance at the output.

Your benefit	Features
An amplifier for every application	<ul> <li>User-optimized tuning</li> <li>Adjustable bias point</li> <li>Maximum output power versus higher mismatch tolerance</li> </ul>
Flexible control and operation	<ul> <li>I Manual operation</li> <li>I Local and remote operation via web browser and PC</li> <li>I Remote control via Ethernet, GPIB or optical LAN</li> <li>I Two different interlocks</li> </ul>
Developed with experience and competence	<ul> <li>Outstanding expertise in amplifier development founded on decades of experience</li> <li>State-of-the-art RF design</li> <li>Series production in one of Europe's most advanced plants</li> </ul>

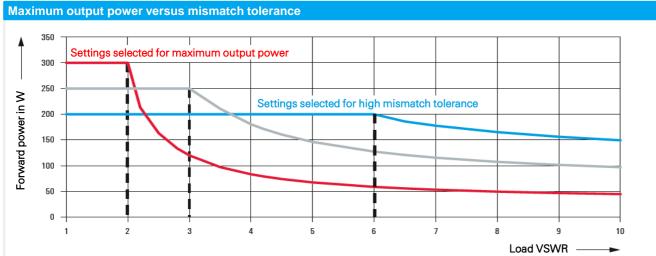
For more information, visit <a href="https://www.rohde-schwarz.com/catalog/bba130">www.rohde-schwarz.com/catalog/bba130</a>







The R&S®BBA130 allows you to set the transistor bias to Class A, Class AB, or anywhere in between while the amplifier is in operation. To generate a clean CW signal, operate the R&S®BBA130 in Class A. Setting a bias point in Class A provides excellent linearity with good harmonic performance. To accurately amplify pulsed signals, select a bias point in Class AB (refer to "Class AB operation" above). Setting a bias point in Class AB permits accurate reproduction of pulsed signals as well as improved efficiency.



Amplifiers are used for a number of different applications. Impedance matching at the amplifier output is typically good during design and validation tests but not well suited to EMC or scientific applications. The R&S BBA130 allows you to choose between delivering high maximum output power when there is a good impedance match (see red trace above with power reduction starting for VSWR > 2:1) or robustness against mismatch with lower output power (see blue trace above with power reduction starting for VSWR > 6:1).

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R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG | PD 5216.4427.32 | Version 01.00 | November 2018 (jc) Trade names are trademarks of the owners | R&S®BA130 broadband amplifier | Data without tolerance limits is not binding Subject to change | © 2018 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany

Popular models (4 HU, air-cooled)			
Single-band power amplifiers	Туре		
750 W, 80 MHz to 1.0 GHz	BBA130-BC750		
300 W, 0.69 GHz to 3.2 GHz	BBA130-D300		
280 W, 2.5 GHz to 6.0 GHz	BBA130-E280		
Twin-band power amplifiers			
350 W/350 W, 80 MHz to 1.0 GHz	BBA130-BC350BC350		
160 W/160 W, 0.69 GHz to 3.2 GHz	BBA130-D160D160		
150 W/150 W, 2.5 GHz to 6.0 GHz	BBA130-E150E150		
Dual-band power amplifiers			
350 W/160 W, 80 MHz to 1.0 GHz/ 0.69 GHz to 3.2 GHz	BBA130-BC350D160		
160 W/150 W, 0.69 GHz to 3.2 GHz/ 2.5 GHz to 6.0 GHz	BBA130-D160E150		

Popular options	
Option	Туре
GPIB remote control, external converter	R&S®BBA-B101
RF input switch (1:2 or 2:1, N)	R&S®BBA-B110
RF input switch (1:6, N)	R&S®BBA-B116
RF output switch (2:1 or 1:2, N)	R&S®BBA-B120
RF output switch (2:2, 7/16)	R&S®BBA-B121
RF output switch (2:2, 7/8" EIA)	R&S®BBA-B122
RF output switch (2:2, 1 5/8" EIA)	R&S®BBA-B123
RF output switch (6:1, N)	R&S®BBA-B126
Fast amplifier mute	R&S®BBA-B130
DC block input protection (N)	R&S®BBA-B132
RF sample ports (N front)	R&S®BBA-B140
RF sample ports (N rear)	R&S®BBA-B140
Detected sample ports (N front)	R&S®BBA-B141
Detected sample ports (N rear)	R&S®BBA-B141
Sample port switch (dual-port, N front)	R&S®BBA-B142
Sample port switch (dual-port, N rear)	R&S®BBA-B142
Transparent I/O	R&S®BBA-B160