



产品 手 册

仪器型号: AR功率放大器20s6g

西安安泰测试科技有限公司

仪器维修|租赁|销售|测试

地址:西安市高新区纬二十六路 369 号 网址: <u>www.agitekservice.com</u> 电话:400-876-5512 座机:029-88827159



Features:

- 20 W CW, 6 18 GHz
- Class A design
- 100% mismatch tolerant
- Built-in fault monitoring and protection
- Remote control: Ethernet, USB, GPIB, fiber-optic serial, RS-232
- Modular design for easy maintenance and service
- Low acoustical noise

Applications:

- EMC (military, aviation, automotive, commercial)
- Radiated and conducted EMC testing
- General purpose, antenna, and component testing
- CDMA, W-CDMA, TDMA, GSM, UWB, WiMAX etc.

To view our full amplifier portfolio visit: www.arworld.us/amplifiers

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The Model 2056G18C is a solid-state, Class A design, self-contained, aircooled, broadband power amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. It will provide a minimum of 20 W across its operating bandwidth. Protection from input overdrive beyond 0 dBm is provided as well as protection from various failure conditions including over-temperature and power supply faults.

A front panel display indicates the operational status and fault conditions. All amplifier control functions, and status indications are available remotely using GPIB/IEEE-488, RS-232, fiber-optic serial, USB, or Ethernet. Interface connectors are located on the back panel. Local and remote operation is managed by a switch on the front panel. This is a multiple purpose amplifier. The low level of spurious signals and linearity make it ideal for use as a driver in testing wireless and communication components and subsystems. By covering such a wide bandwidth, it is suitable for a variety of communication technologies such as CDMA, W-CDMA, TDMA, GSM, UWB, WiMAX etc.

The export classification for this equipment is 3A001. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



- 20 W
- 6 18 GHz

Electrical Specifications					
Parameter	Symbol	Minimum	Typical	Maximum	Unit
Rated Power Output (6 - 18 GHz)	PSAT	20	30	>60	W
Input for Rated Output	Pin			1.0	mW
				0	dBm
Power Output @ 1 dB Compression	PldB	15	22	>45	W
Power Output @ 3 dB Compression	P3dB	18	25	>55	W
Operating Frequency	BW	6.0		18.0	GHz
Gain (Small Signal)		45	47	49	dB
Gain Reduction Adjustment (when below compression)		10			dB
Flatness	۵G		±2.0	±2.5	dB
Input Impedance	Z in		50 2.0:1	2.5:1	Ohm VSWR
Output Impedance	Z out		50		Ohm
3 rd Order Intercept	IP3		49		dBm
Harmonic Distortion @ 20 W	H2, H3		-25	-20	dBc
Power Consumption	PD			600	W
Modulation Capability	AM, FM or Pulse				

Absolute Maximum Rating

Exceeding any of the limits listed here may result in permanent damage to the device.				
Parameter	Minimum	Typical	Maximum	Unit
RF Drive		0	+13	dBm
RF Load		1:1	~	VSWR
RF Load Reflected Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.			100	%
AC Power (single phase)	100		240	VAC
	47		63	Hz
Ambient Temperature	+5	+25	+40	°C
Storage Temperature	-20		+50	°C
Altitude			2000	m
Shock/Vibration	Normal Truck Transport			

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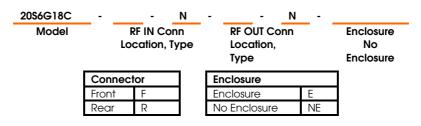
- 20 W
- 6 18 GHz

Mechanical Specifications				
Parameters		Unit		
Dimensions (With Cabinet) (W x H x D)	50.2 x 20.6 x 63.8	cm		
	19.8 x 8.1 x 25.1	in		
Dimensions (No Cabinet) - 4U for 19" Rack	48.3 x 18.8 x 63.8	cm		
	19.0 x 7.0 x 25.1	in		
Weight (With Cabinet)	29.5	kg		
	65	lb		
Weight (No Cabinet)	20.4	kg		
	45	lb		
Cooling	Forced air (self-contained fans) Side inlets / rear outlet $\Delta t = +7^{\circ}C$ (typical)			
Acoustical Noise (Measured @ 1 meter from the front)	60 (typical)	dBA		

Regulatory Compliance		
Туре	Standard	
EMC	EN 61326-1	
Safety	UL 61010-1	
	CAN/CSA C22.2 #61010-1	
	CENELEC EN 61010-1	
RoHS	Directive 2011/65/EU	
Export	3A001	

Connector interfaces	
Function	Туре
RF input	N female (50 Ω)
RF output	N female (50 Ω)
IEEE-488	24-pin female
RS-232	9-pin subminiature D female
RS-232 (fiber optic)	ST
USB 2.0	Туре В
Ethernet	RJ-45
Interlock	15-pin subminiature D female

Ordering Options



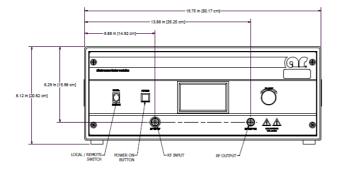
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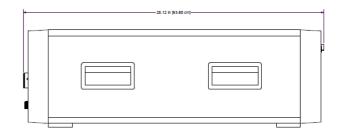


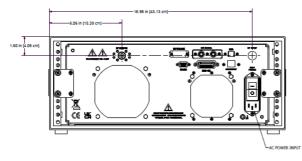
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Envelope Drawing

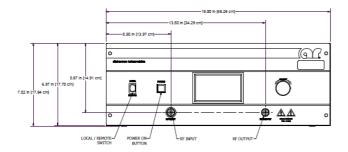
20S6G18C with Cabinet

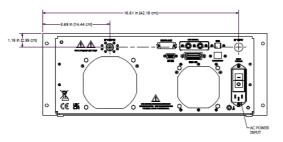


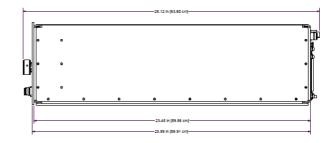




20S6G18C without Cabinet



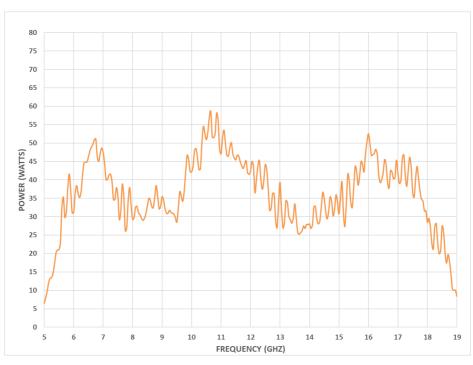




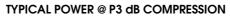
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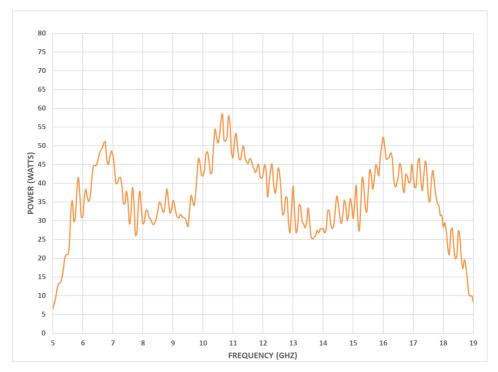


- 20 W
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TYPICAL PSAT POWER @ 0 dBm INPUT

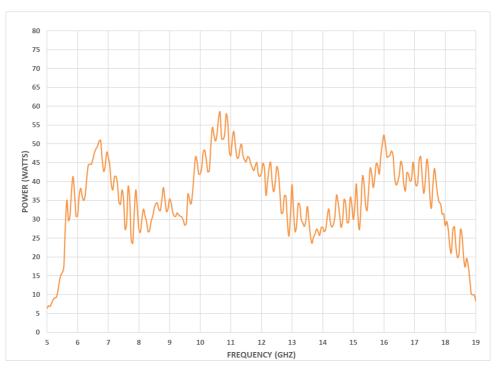




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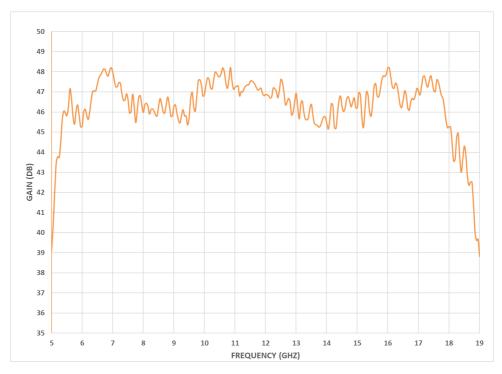


- 20 W
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TYPICAL POWER @ P1 dB COMPRESSION

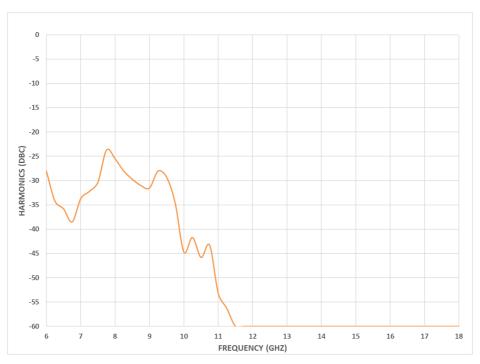




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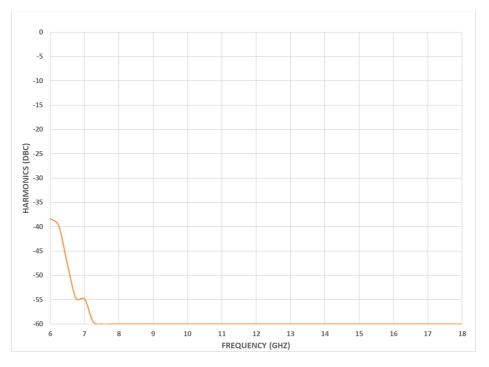


- 20 W
- 6 - 18 GHz



TYPICAL 2nd HARMONIC @ 20 W OUTPUT





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