

AFG3000C Series vs. Rigol DG5000

Competitive Fact Sheet

Reduced Set-up and Evaluation Time

Tektronix AFG3000C

- ✓ **6 Shortcut buttons** including **Frequency/Period, Amplitude/High, Offset/Low, Duty/Width, Leading/Trailing, Phase/Delay**, providing direct access to frequently-used parameters
- ✓ Free ArbExpress and Signal Express Software provide tools that enable seamless connection between multiple Tektronix oscilloscopes and the AFG3000C.



Rigol DG5000

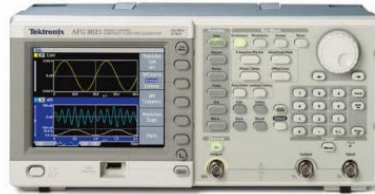
- ✗ **No Shortcut buttons** – Does not offer shortcut buttons. Users must navigate with screen bezel buttons to access frequently-used parameter settings.
- ✗ Rigol Ultra Station software doesn't directly support waveform transfer from oscilloscopes to the signal generator.



More Guaranteed Specifications

Tektronix AFG3000C

- ✓ **These specification are guaranteed:**
 - Harmonic Distortion
 - Spurious
 - Rise/Fall Time
 - Amplitude Accuracy
 - Output Impedance



Rigol DG5000

- ✗ **These specification are typical:**
 - Harmonic Distortion
 - Spurious
 - Rise/Fall Time
 - Amplitude Accuracy
 - Output Impedance



Key Specifications Comparison

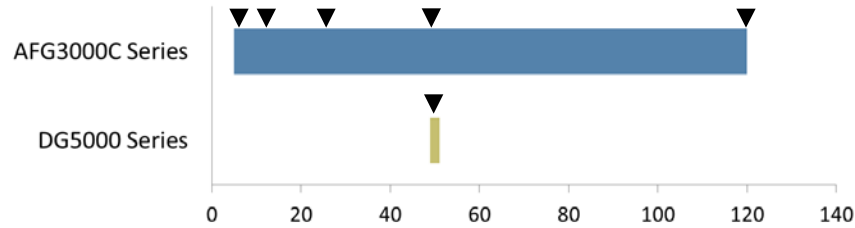
	Tektronix AFG3000C	Rigol DG5000
Channels	✓ 1, 2	✓ 1, 2
Bandwidth (MHz)	✗ 10, 25, 50, 100, 240	✓ 70, 100, 250, 350
Record Length	✗ 128K points	✓ 16M/128M points
Max Sampling Rate	✓ AFG3011C: 250MS/s AFG302xC: 250MS/s AFG305xC: 1GS/s AFG310xC: 1GS/s AFG325xC: 2GS/s	✗ All models: 1GS/s
Connectivity	✓ USB, GPIB, LAN	✓ USB, GPIB, LAN
Max Output Voltage Into 50 Ω	✓ AFG3011C: 20Vpp AFG302xC: 10Vpp AFG305xC: 10Vpp AFG310xC: 10Vpp AFG325xC: ≤ 200MHz: 5Vpp > 200MHz: 4Vpp	✓ ≤ 100MHz: 10Vpp ≤ 300MHz: 5Vpp ≤ 350MHz: 2Vpp

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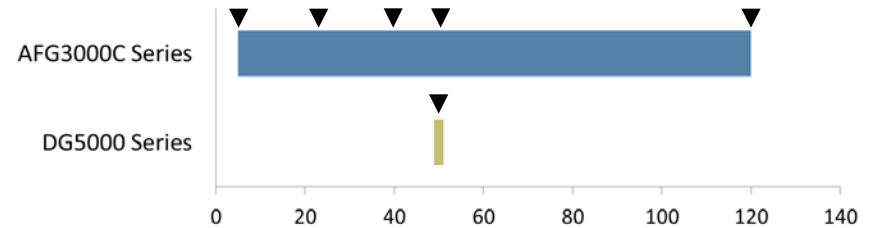
Competitive Fact Sheet

▼ Model Max Frequency

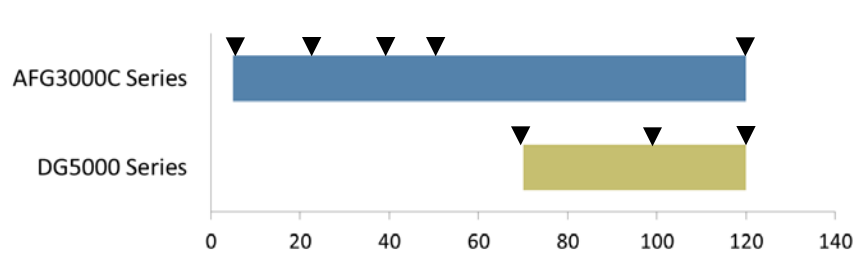
Tektronix offers more arbitrary waveform frequencies



Tektronix offers more pulse frequencies



Tektronix offers more square wave frequencies



Wider Pulse Duty Cycle Range

Tektronix AFG3000C

✓ 0.001% to 99.999% (Limitations of pulse width apply).

Rigol DG5000

✗ ≤10 MHz: 20.0% to 80.0%
 10 MHz-40 MHz: 40.0% to 60.0%
 >40 MHz: 50.0% (fixed)

Total Harmonic Distortion

Tektronix AFG3000

✓ <0.2%

Rigol DG5000

✗ <0.5%