

# AFG302xC/AFG305xC vs. Agilent 33500B Series Arbitrary/Function Generator

## Competitive Fact Sheet

### Reduced Set-up and Evaluation Time

#### Tektronix AFG3000C Series

- ✓ **25 Shortcut Keys** – Directly access frequently used parameters and settings without browsing through screen menus, saving time.



#### Agilent 33500B Series

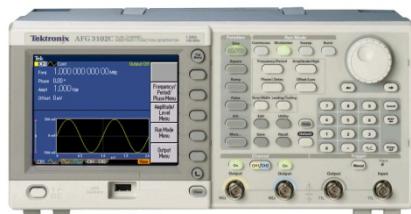
- ✗ **10 Shortcut Keys** – All parameters and functions are selected via screen menus. To access some settings, the user has to browse through multiple levels.



### Larger Display

#### Tektronix AFG3000C Series

- ✓ **5.6" Color LCD** – Large display shows all signal parameters and waveform shape at a single glance



#### Agilent 33500B Series

- ✗ **4.3" Color LCD** – 30% less viewing space to see signal details and important signal parameters



### Key Specifications Comparison

	Tektronix AFG3021C, AFG3022C AFG3051C, AFG3052C		Agilent 33511B, 33512B 33521B, 33522B	
<b>Channels</b>	✓	1, 2	✓	1, 2
<b>Max. Sine/Frequency</b>	✓	AFG302xC: 25 MHz AFG305xC: 50 MHz	✗	33511/12B: 20 MHz 33521/22B: 30 MHz
<b>Max. Square/Pulse Frequency</b>	✓	AFG302xC: 25 MHz AFG305xC: 40 MHz	✗	33511/12B: 20 MHz 33521/22B: 30 MHz
<b>Sampling Rate</b>	✓	AFG302xC: 250 MS/s AFG305xC: 1 GS/s	✗	250 MS/s
<b>Jitter</b>	✗	AFG302xC: 500 ps AFG305xC: 300 ps	✓	40 ps
<b>Display</b>	✓	5.6" color LCD	✗	4.3" color LCD
<b>Warranty</b>	✓	3-year	✗	1-year
<b>Waveform Editing/Creation Software</b>	✓	ArbExpress® included	✗	BenchLink Waveform Builder Pro optional

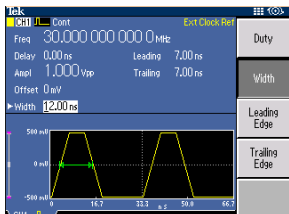
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## Competitive Fact Sheet

### Pulse generation

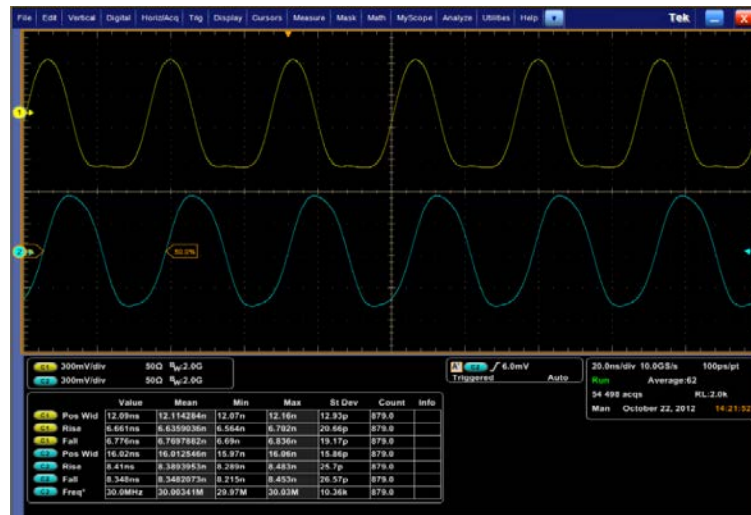
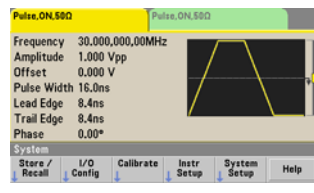
#### Tektronix AFG302xC, AFG305xC

- ✓ AFG302xC: 25MHz pulse  
AFG305xC: 40MHz pulse
- ✓ AFG302xC: 16ns pulse width  
AFG305xC: 12ns pulse width
- ✓ AFG302xC: 9ns edge times  
AFG305xC: 7ns edge times



#### Agilent 33500B Series

- ✗ 33511/12B: 20MHz pulse  
33521/22B: 30MHz pulse
- ✗ 16ns pulse width
- ✗ 8.4ns edge times



### Multi-lingual support

#### Tektronix AFG3000C Series

- ✓ Both menus and online help are available in multi languages



#### Agilent 33500B Series

- ✗ Only online help is available in multi languages



### Small Footprint

#### Tektronix AFG3000C Series

- ✓ Small footprint optimize bench space: 55, 372 mm<sup>2</sup>
- ✓ Mechanically designed to stack with Tektronix scopes to save bench space
- ✗ One instrument uses full rack width and 5U height.

#### Agilent 33500B Series

- ✗ Large footprint requires more bench space: 78,904 mm<sup>2</sup>
- ✗ Source and scope must be placed side by side, occupies more bench space
- ✓ Two units fit side-by-side in rack and use 3U height.

