SPECIFICATIONS

Number of Output Channels: 2

D.C. Output Characteristics

Output Voltage Range: ±5 V into 50 Ω; ±10 V into >10 kΩ load.

Maximum output current: ±100 mA

Output impedance: 50 ± .5 Ω

Minimum amplitude range: <100 μV full-scale into 50 Ω

D.C. Output Accuracy: (at calibrate time): 0.5% FSR into 50.00 Ω for FS≥500 mV
1.0% FSR ± 500 μV into 50.0 Ω for FS <500 mV. (Accuracy gradually drops from .5% to 1% at 50 mV FS)
0.3% FSR into user supplied load of from 49 Ω to 1 MΩ for FSR ≥10% of Max Output Voltage Range.

Output Temperature Coefficient: <0.01% of FSR/ °C typical

Waveform DAC Resolution: 12 bits

Gain Adjust Resolution: 0.05% Amplitude

Offset Adjust Resolution: 0.05% FSR

Waveform DAC Int. Non-Linearity: ±0.03% typ.; ±0.05% max

Waveform DAC Diff. Non-Linearity: ±0.75 lsb typ; ±1 lsb max, monotonic

Offset Adjust Range: ± Full Scale Amplitude (wrt midscale of waveform); must be within Output Voltage range.

Dynamic Characteristics:

Risetime/Falltime: ≤ 8 nsec (5.5 nsec typ)
Overshoot and Ringing: ≤ 5%, typically 2%
Total Harmonic Distortion: (1 V rms into 50 Ω)
≤ -65 dBc, f < 200 kHz
≤ -55 dBc, f < 1 MHz
≤ -45 dBc, f < 5 MHz
Spurious and non-harmonic distortion:
< -65 dBc, f ≤ 1 MHz
< -60 dBc, f > 1 MHz
excluding the band within 1 kHz of carrier
Settling Time: < 20 nsec to 1% typical, 50 nsec max.
Interchannel Crosstalk: ≤ 0.05%, tested with both channels at 10 V amplitude.
Channel-to-Channel Analog Delay Difference: ≤ 3 nsec