

356E SPECIFICATIONS

Loss

Frequency: 1004 Hz
Level: 0.0 dBm
Range: +2.0 dBm to -15.8 dBm
Accuracy: ± 0.1 dB

Gain Slope

Frequencies: 404 Hz, 1004 Hz, 2804 Hz
Level: -16.0 dBm
Range: +2.0 dB to -20.8 dB
Accuracy: ± 0.2 dB

C-Message Noise

Range: 15 dBmC to 55 dBmC
Accuracy: ± 1 dB
Filter: C-Message

C-Notch Noise

Frequency: 1004 Hz
Level: -16.0 dBm
Range: 34 dBmC to 74 dBmC
Accuracy: ± 1 dB

Return Loss

Bands: ERL, SRL, SRH
Level: -10 dBm0
Range: 0 dB to +40 dB
Accuracy: ± 1 dB

Attenuation Distortion

Frequency range: 304 Hz to 3204 Hz
Frequencies: 304, 404, 504, 604, 804, 1004, 1404, 1804, 2204, 2404, 2504, 2604, 2704, 2804, 3004, 3204 Hz
Level: -13.0 dBm
Range: +2.0 dB to -20.8 dB
Accuracy: ± 0.2 dB

3 kHz Noise

Range: 34 dBm to 74 dBm
Accuracy: ± 1 dB
Filter: 3 kHz flat

Signal-To-Noise

Frequency: 1004 Hz
Level: -16.0 dBm
Range: 10 dB to 40 dB
Accuracy: ± 1 dB
Filter: C-Notch

Peak-to-Average Ratio (P/AR)

P/AR Signal Level: -16.0 dBm
Range: 40 units to 110 units
Accuracy: ± 2 units

Envelope Delay

Frequency range: 304 Hz to 3204 Hz
Range: -2500 to +8500 μ Sec
Level: -13.0 dBm
 ± 10 μ Sec (604-3204 Hz)
 ± 30 μ Sec (304-604 Hz)

**Intermodulation Distortion
(Nonlinear Distortion)**

Frequencies: 857, 863, 1372, 1388 Hz
Composite Level: -16.0 dBm
Range: 20 dB to 60 dB
Accuracy: ± 1 dB

**Phase and Amplitude Jitter
(Standard and Low Frequency)**

Frequency: 1004 Hz
Level: -16.0 dBm
Filter: 20-300 Hz or 4-300 Hz
Range: 0-20.0% amplitude
0-20.0° phase
Accuracy: $\pm 5\%$ of reading, ± 0.2

Impulse Noise/Hits

Frequency: 1004 Hz
Level: -16.0 dBm
Threshold: 50-90 dBmC
Spread: 1-9 dB (± 1 dB)
Measurements per Second: 1-99
Phase Hit Threshold: 5-30° ($\pm 10\% \pm 0.5^\circ$)
Gain Hit Threshold: 1-8 dB (± 0.5 dB)
Test Length: 1 to 99 minutes (each way)
Range: 0 to 254 impulses/hits
Accuracy: ± 1 impulse/hit

MF Receiver

Tone Frequencies: 700, 900, 1100, 1300, 1500, 1700 Hz
Dynamic Range: 28 dB
Skew: 50 Hz Max.
Twist: 6 dB Max.
Digit Length: 30 msec minimum (simultaneous tones)
Interdigit time: 20 msec minimum
Min. S/N: 15 dB

Line Interface

Impedance: 600 or 900 ohms $\pm 1\%$, Switch selected
Ring Trip: 20-30 Hz, >65 Vrms & 1 second duration
Time Out: 20 Seconds

General

Size: 3.5" High X 17" Wide X 10" Deep
Weight: 7 lbs. Shipping 12 lbs.
Temperature range: 0-50° C
Humidity (max): 85% Noncondensing
Power: 356E-AC 110/220 VAC
50-60 Hz @ 0.2 Amp
356E-DC -48 VDC @ 0.25 Amp
Ringer Equivalence Number: 0.0 B