

Simultaneous Measurement of Jitter Amount and Level

CE
Upon request



LJM-1851 CD JITTER METER

● GENERAL

The first in Leader's long series of professional CD jitter meters, the LJM-1851 found extensive application in CD manufacturing and QC throughout the world. Providing both RF level and jitter readings simultaneously, the unit also speeds production throughput with rapid and accurate judgement calls.

● FEATURES

- X1 Speed Standard
- Jitter Extracted from the 3T Component
- Simultaneous P-P Level of 3T or 11T Components
- Selection of Peak or Sigma-Weighted Readings
- Polarity Selection for Rising or Falling Edges
- GO/NO-GO Judgements Based on Preset Values
- GO/NO-GO for Both Level and Jitter
- TTL Output Uses NO-GO as Line-Stop Command
- DC Output of Jitter and Level Analogs

● SPECIFICATIONS

Input Section

Input Signal: EFM signal (clock: 4.3218 MHz \pm 3 %)
Input Voltage Range: 0.15 to 3 Vp-p (2 ranges)
Input Impedance: 1 M Ω , 35 pF

Jitter Measurement Section

Measuring Range: For peak value indication, 100 or 200 ns (2 ranges)
 For sigma value indication, 30 or 60 ns (2 ranges)

Measuring Accuracy: Within \pm 5 % of full scale

Indication: Peak or sigma value

Measurement Bits: 3 T

Level Measurement Section

Measurement Bits: 3 T or 11 T (switchable)

Measuring Range: 1.5 or 3 Vp-p (2 ranges)

Measuring Accuracy: Within \pm 5 % of full scale

Judgment Section

Judged Item: Jitter amount and signal level

Judging Procedure: By setting preset values for the meters, measured values are judged and displayed as GO or NO-GO on LED. GO is displayed when the measured jitter is below the preset value or the measured level is above the preset value.

Output Section

Monitor Output: EFM and jitter signals (via BNC connector)

DC Voltage Output: +1 V at full scale of meter

Judgment Output Connector:

Amphenol 14-pin connector

Output Voltage: TTL level, negative logic

Environmental Conditions

Operating Temperature: 10 to 40°C

Operating Humidity: \leq 85% RH (without condensation)

Operating Environment: Indoor use

Operating Altitude: Up to 2,000 m

Overvoltage Category: II

Pollution Degree: 2

Power Requirements:

100, 120, 220, 240 VAC,

(250 V max.)50/60 Hz, 20 VA

426 (W) \times 99 (H) \times 300 (D) mm

4 kg

Accessories:

BNC-clip cable 1

Instruction manual 1