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TSC 4059B

1 × 15 Low-Frequency Distribution Amplifier (IRIG A/B or G)

Summary

The Microchip 4059B is a one-input, 15-output IRIG distribution amplifier in a 1U, 19 inch rack-mount chassis. It provides 15 isolated (>70 dB) outputs from a single input. This unit is ideal for distributing IRIG A/B or G. An Ethernet port on the rear panel provides the capability to remotely monitor the status of the input and all output signals. Any failure in the unit will immediately provide an alarm to this port. The front panel provides green LED status for the input and a green LED status light for the input and green/red status lights for all the output signals. LEDs also indicate 1 kHz, 10 kHz or other carrier frequency. A green LED on the front panel also provides power status.



Features

- Exceptional IRIG A/B or G distribution
- High-channel isolation
- 15 outputs
- Yields 225 outputs at second level
- LED status indicators for all inputs and outputs
- Status information via Ethernet

Specifications

Electrical Specifications

- Time code input and outputs (15)
  - Code format: Any
  - Modulation frequency: 1–100 kHz
  - Modulation ratio: Any
  - Amplitude: <6V (peak-peak)
  - Output isolation: > 70 dB
  - Gain: 1 ± 10%
  - Input impedance: 50Ω ± 5Ω, or 10 kΩ (jumper selectable, 4059B only)
  - Output impedance: 50Ω ± 5Ω
- Status
  - Senses signal presence on all inputs and outputs
  - Green/red LEDs on front panel
  - LED indicators for carrier frequency: 1 kHz, 10 kHz, and other
  - Network (RJ-45 connector)
- Environmental and physical specifications
  - Temperature: 0°C to 50°C
  - Humidity: 0 to 95% non-condensing
  - Power requirements (AC input): 90–264 VAC, 10W, 47–63 Hz
  - Dimensions: 1U ~1.75" (4.44 cm) × 19" (48.26 cm) x 12" (30.48 cm)
  - Weight: 9 lbs (4.10 Kg)

Certifications

- Safety:
  - UL 61010-1 (2016) Third Edition
  - IEC 61010-1 (2010) Third Edition
  - EN 61010-1 (2010) Third Edition
- EMC:
  - EN61326-1 (2006) EMC Requirements for Measurement, Control and Laboratory Equipment, Class A
  - EN61000-3-2 (2006) +A1+A2 Harmonic Current Emissions
  - EN61000-3-3 (2008) Voltage Fluctuation and Flicker Emissions

Ordering Information

Contact Microchip for pricing and availability



TSC 4059B 1x15 Low Frequency Distribution Amplifier (IRIG A/B or G)

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