

UDX-T01 Trigger Head



Features and Benefit

- Trigger-countdown Head
- 500 MHz to 10 GHz Trigger Bandwidth
- High sensitivity of 100 mV p-p up to 5 GHz, and 200 mV p-p up to 10 GHz
- Less than 2.5 ps max RMS Jitter
- Trigger Level control to synchronize the internal oscillator with an input signal
- N-type input connector
- Optional BNC or SMA output connector
- 1-m extended cable to reduce the input cable losses

Applications

- Ability to trigger all UDS-2000 Series sampling oscilloscopes
- For applications requiring more than 1 GHz trigger bandwidth
- Lightwave communications
- Pulsed RF
- Gigabit logic
- Pseudo-random bit-stream eye patterns
- Microwave signal measurements

Product Description

The UDX-T01 Trigger Head is a free-running countdown tunnel diode oscillator designed to provide stable display of signals from 500 MHz to 10 GHz with less than 2.5 ps RMS jitter. It can be controlled to synchronize the internal oscillator frequency to a subharmonic of the input signal. The output signal is a direct countdown of the input and permits triggering by the sampling time base. The output from the UDX-T01 is coupled to the HF Trigger input connector of any of the UDS-2000 oscilloscope.



A 14-GHz sine wave signal triggered with UDX-T01 Trigger Head shown together with fast step generated from UDX-G01 Pulse Head

Specifications and Characteristics

Compatibility - Compatible with all UDS-2000 Series sampling oscilloscopes.

Bandwidth and Sensitivity – 100 mV p-p 500 MHz to 5 GHz, and 200 mV p-p 5 GHz to 10 GHz, as measured separately into 50 Ohm.

Maximum RMS Jitter – 2.5 ps (maximum), 2.0 ps (typical). Including UDS-2000 mainframe jitter with the triggering level adjusted for optimum trigger and with minimum delay setting.

Maximum Safe Trigger Input Voltage - ± 2 V (dc + peak ac) or 16 dBm.

Kickout at the Input - A repetitive 50-to-100-MHz pulses under 200 mV p-p amplitude / 1 ns width.

Input Coupling - AC.

Input Connector - N-type (m).

Output Connector - Optional BNC (m) or SMA (m).

Dimensions - Width: 25 mm, Height: 25 mm, Depth: 100 mm.

Weight – 300 g.

Ordering Information

P/N 790008 –

UDX-T01 10 GHz Trigger Head.

Option NB: BNC (m) output connector.

Option NS: SMA (m) output connector.