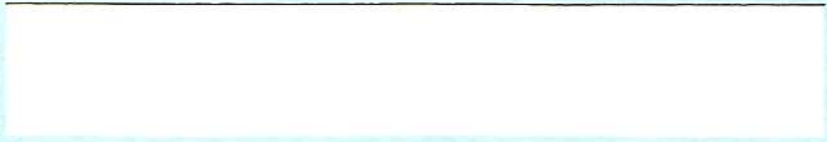


ITEM



MANUFACTURERS OF CATHODE-RAY OSCILLOSCOPES

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067-0608-00 CALIBRATION FIXTURE

Overdrive Recovery



The Tektronix Type 067-0608-00 Calibration Fixture is designed to provide overdrive signals for measuring the overdrive recovery time of Tektronix plug-in amplifiers.

The fixture produces a + or - 11 V overdrive signal with a 7ns falltime (reference to the output and into a 50 pF or less load). It can be switched manually or driven by an external switch-drive source such as a Tektronix Type 106 Squarewave Generator. The BNC output of the fixture is designed to connect directly to the input of the amplifier under test. Power for operating the device is supplied by the 7000-Series Oscilloscope used in the test, via the probe-power-out connector on the rear of the instrument. A separate power source such as a Tektronix Type 1101 is required for operating the fixture with plug-in amplifiers other than 7-Series.



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SECTION 1
CHARACTERISTICS

ELECTRICAL

<u>Characteristic</u>	<u>Performance Requirement</u>	<u>Supplemental Information</u>
Power Requirements		
Voltage	+15 V DC and - 15 V DC	Fixture supplied with power plug for operation with 7000-Series Oscilloscopes.
Current	250 mA each supply	
Switch Drive Requirements		
Voltage	At least 6 V to 60 V or less depending on repetition rate of drive signal	Depends on resonant frequency of particular reed switch used in fixture
Repetition Rate	DC to 800 Hz	
Overdrive Output Signal		
Falltime	7 ns or less into 1 M Ω , 50 pF	
Variations from Zero Level Amplitude	10 μ V or less after 100 ns Continuously variable from +100 mV or less to at least +11 V, or from - 100 mV or less to at least -11 V.	
Output Resistance	50 Ω within 10%	

MECHANICAL

<u>Characteristic</u>	<u>Requirement</u>	<u>Supplemental Information</u>
Construction		
Housing	Cast front and rear sub-panel; blue vinyl painted aluminum, wrap-around cabinet	
Panel	Anodized aluminum	
Circuit Board	Glass-Epoxy Laminate	
Overall Dimensions		
Height	1-15/16 inches	
Width	4-5/8 inches	
Depth	2-1/8 inches	

ENVIRONMENTAL

<u>Characteristic</u>	<u>Requirement</u>	<u>Supplemental Information</u>
Temperature		
Operating Range	0° C to +50° C	
Warmup Time	None	

CONTROLS , SWITCHES AND CONNECTORS

LEVEL Control

Continuously variable control adjusts the amplitude of the overdrive signal.

Polarity Switch

Three-position toggle switch selects a positive-going (+) or negative-going (-) overdrive signal, or turns the overdrive signal OFF.

SWITCH DRIVE

EXT IN Connector

BNC-type connector couples the external SWITCH-DRIVE signal to the fixture. The duration of overdrive signal is determined by the duration of the applied signal.

MANUAL Pushbutton

Pushbutton switch removes the SWITCH DRIVE signal supplied to the EXT IN connector, and applies the overdrive signal as long as the MANUAL pushbutton is depressed.

SIGNAL OUTPUT Connector

BNC-type connector couples the fixture output directly to the input of the amplifier under test.

TRIGGER OUT Connector

Banana-plug jack provides an output signal for externally triggering the Oscilloscope time-base.

POWER Input Plug

Special 4-pin Lemo connector with permanently attached power cord, connects to probe-power-output of the Type 7000-Series Oscilloscope under test.

