

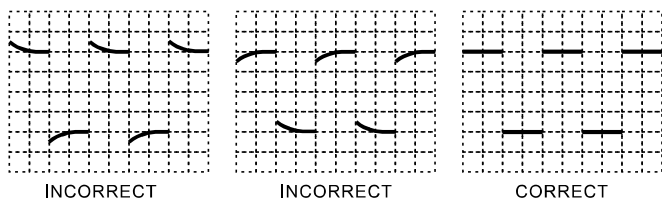
## INTRODUCTION

This passive high impedance oscilloscope probe designed and calibrated for use on instruments having an input impedance of 1M Ohm shunted by 15 pF. However, it may be compensated for use with instruments have an input capacitance of 10-35pF. The probe incorporates a two position slide switch in the head which selects attenuation of X1,X10.

## LOW-FREQUENCY COMPENSATION ADJUSTMENT

Low frequency response can be matched to the oscilloscope by adjusting the compensation trimmer on the head of the probe. Connect the probe to the oscilloscope and to a 1KHz square waveform source. For X1/X10 probes, switch to the X10 position. Set the oscilloscope to display two to three cycles and two to six vertical divisions.

Carefully adjust the trimmer tool to obtain the flattest tops to the square waves displayed on ths oscilloscope, see follow illustrations.



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5 in 1 BZ 20~100MHz  
 Update: Dec.10.2021

## SPECIFICATIONS:

MODEL	20MHz □		25MHz □		40MHz □		60MHz □		100MHz □	
Attenuation Ratio	X1	X10	X1	X10	X1	X10	X1	X10	X1	X10
Bandwidth (MHz)	10	20	10	25	10	40	10	60	10	100
Rise-time(ns)	35	17.5	35	14	35	8.75	35	5.8	35	3.5
Input ⓪ Resistance	1M	10M	1M	10M	1M	10M	1M	10M	1M	10M
Input ⓪ Capacitance	57pF	15pF	57pF	15pF	57pF	15pF	57pF	15pF	57pF	15pF
Compensation Range	X	10~35pF	X	10~35pF	X	10~35pF	X	10~35pF	X	10~35pF
Working Voltage	600VDC+pk.AC									
Safety	Conformed IEC-61010 CATII									
Cable Length	1.2M									
Note	⓪ 1M Input resistance point to oscilloscope Input 10M when used with oscilloscope's with 1M input Ⓛ Approx. 57pF plus oscilloscope input capacitance									

## Voltage derating curve

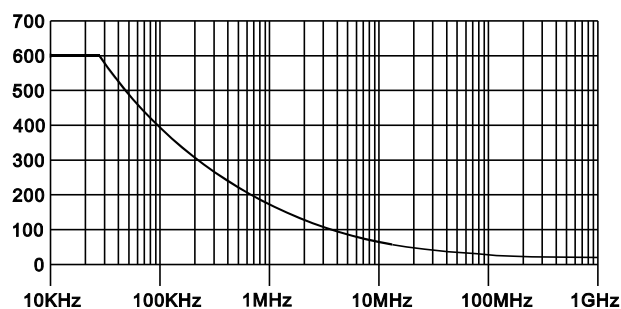


Fig.1

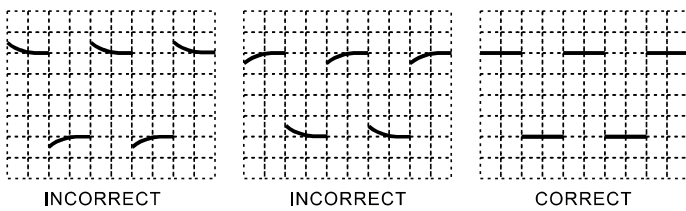
## INTRODUCTION

This passive high impedance oscilloscope probe designed and calibrated for use on instruments having an input impedance of 1M Ohm shunted by 15 pF. However, it may be compensated for use with instruments have an input capacitance of 10-35pF. The probe incorporates a two position slide switch in the head which selects attenuation of X1,X10.

## LOW-FREQUENCY COMPENSATION ADJUSTMENT

Low frequency response can be matched to the oscilloscope by adjusting the compensation trimmer LF1 on the Box of the BNC. Connect the probe to the oscilloscope and to a 1KHz square waveform source. For X1/X10 probes, switch to the X10 position. Set the oscilloscope to display two to three cycles and two to six vertical divisions.

Carefully adjust the trimmer tool to obtain the flattest tops to the square waves displayed on ths oscilloscope, see follow illustrations.



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## HF adjustment

For special measurement tasks, an HF adjustment of the probe can be necessary.

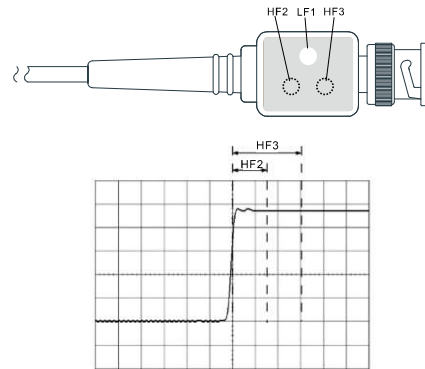
Therefore, the probe has two adjustable trimmers below the label beside LF1. Remove the label if you need HF adjustment.

Use the probe adjust output on the oscilloscope or a pulse generator (less than 1 ns rise time) for full bandwidth adjustment.

1. Make sure that the trimmers HF2 and HF3 are in a center position.

2. Set the timebase of the oscilloscope to 5 ns/div.
3. Start the HF adjustment with trimmer HF3. Turn it until the peak of the adjustable pulse response reaches the end level without any overshoot.
4. Turn trimmer HF2 in the same way, but accept a small overshoot for the first few nanoseconds.

**After adjustment, we recommend sticking the label again to avoid confusion of the trimmers.**



## SPECIFICATIONS:

MODEL	150MHz□		200MHz□		250MHz□		300MHz□	
Attenuation Ratio	X1	X10	X1	X10	X1	X10	X1	X10
Bandwidth (MHz)	10	150	10	200	10	250	10	300
Rise-time(ns)	35	2.33	35	1.75	35	1.4	35	1.17
Input Resistance	1M	10M	1M	10M	1M	10M	1M	10M
Input Capacitance	57pF	15pF	57pF	15pF	57pF	15pF	57pF	15pF
Compensation Range	X	10-35pF	X	10-35pF	X	10-35pF	X	10-35pF
Working Voltage	600VDC+pk.AC		600VDC+pk.AC		600VDC+pk.AC		600VDC+pk.AC	
Safety	Conformed IEC-61010 CATII							
Cable Length	1.2M							
Note	① 1M Input resistance point to oscilloscope Input ② 10M when used with oscilloscope s with 1M input ③ Approx. 57pF plus oscilloscope input capacitance							

## Voltage derating curve

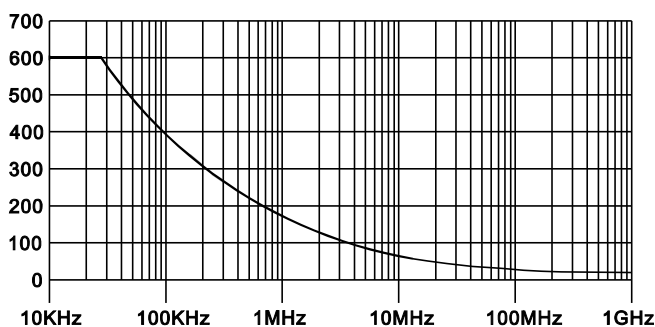


Fig.1

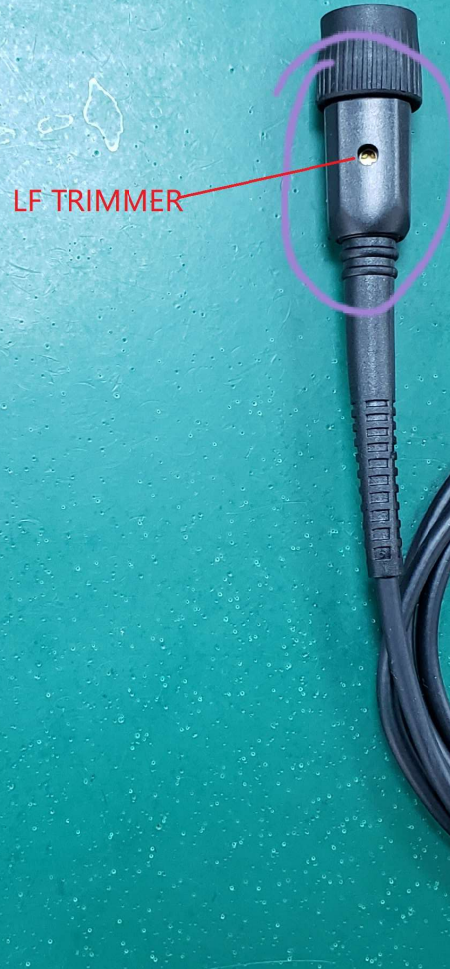
## USER Manual

### MODEL:

TEXAS150	
TEXAS200	
TEXAS250	
TX5415A	
TX5420A	
TX5425A	
TX5430A	



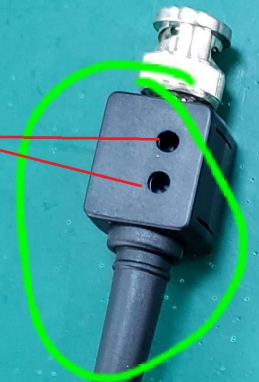
# TEXAS60/100M





# TEXAS250/I

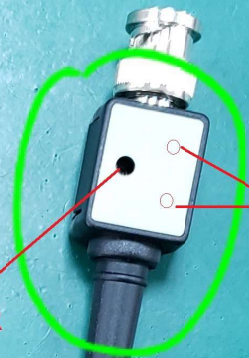
HF TRIMMER



LF TRIMMER



LF TRIMMER



HF TRIMMER IS BELOW THE LABEL



old

new



# TX5430A

HF TRIMMER

LF TRIMMER

LF TRIMMER

HF TRIMMER  
IS BELOW  
THE LABEL

old

new

