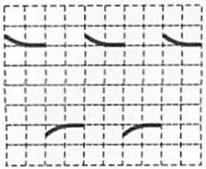
INTRODUCTION

This passive high impedance oscilloscope probe designed and calibrated for use on instruments having an input impedance of 1M Ohm shunted by 20 pF. However, it may be compensated for use with instruments have an input capacitance of 10-50pF. 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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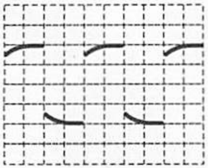
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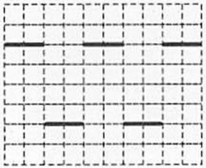
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SPECIFICATIONS:

MODEL	20MHz☐		40MHz☐		60MHz☐		100MHz☑	
Attenuation Ratio	X1	X10	X1	X10	X1	X10	X1	X10
Bandwidth (MHz)	15	20	15	40	15	60	15	100
Rise-time(ns)	23.3	17.5	23.3	8.75	23.3	5.8	23.3	3.5
Input ① Resistance	1M	10M	1M	10M	1M	10M	1M	10M
Input ② Capacitance	46pF	15pF	46pF	15pF	46pF	15pF	46pF	15pF
Compensation Range	X	10-50pF	X	10-50pF	X	10-50pF	X	10-50pF
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 10M when used with oscilloscope s with 1M input ② Approx. 46pF plus oscilloscope input capacitance							

Voltage derating curve

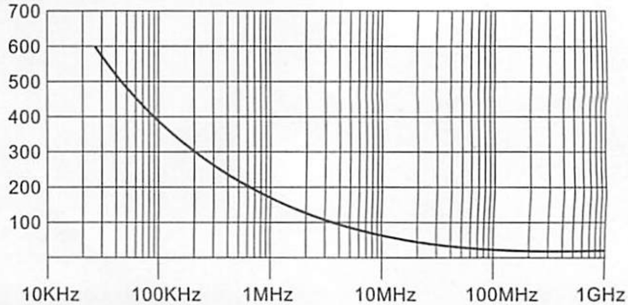

Fig.1