

INSTRUCTIONS FOR
B & K MODEL PR-38 R.F. PROBE

*O-D
probe*

The B & K Model PR-38 R.F. Probe when used with the Model 375 VTVM will enable the operator to measure sine wave voltages at frequencies up to 250 mc. The PR-38 R.F. Probe employs a crystal diode which is used as a half wave rectifier. See Fig. 1.

The half wave rectifier circuit develops a DC voltage that is proportional to the peak value of the sine wave input signal. R-1 is a calibrating resistor which converts this peak reading to the proper reading on the VTVM.

Connect the R.F. Probe to the Model 375 and put the Selector Switch to the DC+ position. Use the DC ranges on the Range Switch. The DC readings that you will now obtain will be the RMS readings of the sine wave being measured. For example, a signal is to be measured and it is found that on the 15V DC range the meter reads 12V. This indicates that the RMS reading of the sine wave input signal is 12V.

Always use the ground lead from the R.F. Probe as the ground connection to the circuit under test. Do not use the long separate ground lead available from the VTVM front panel. Use of this long lead will result in in-accurate readings.

The Probe can be used in circuits where the DC voltage does not exceed 400V, and where the AC voltage does not exceed 25V RMS.

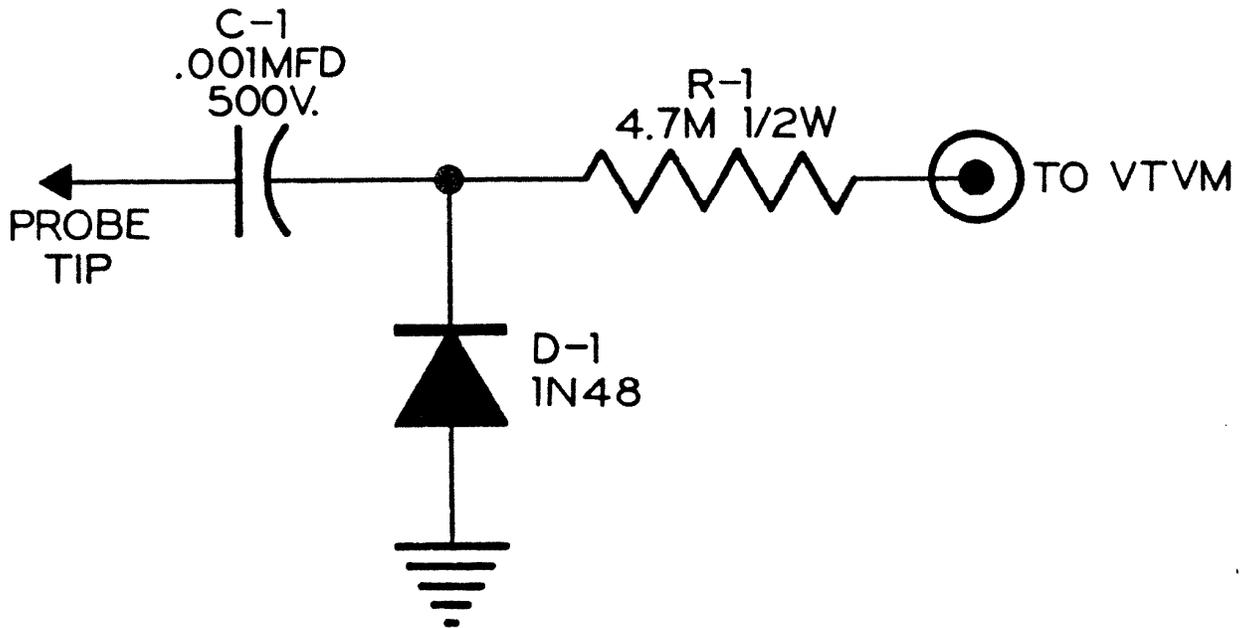


Fig. 1 -- R.F. Probe

B & K MODEL PR-38 REPLACEMENT PARTS LIST

<u>Schematic Symbol</u>	<u>Description</u>	<u>B & K Part No.</u>	<u>Dealer's Net</u>
	Plastic Housing Top (with lettering)	CA-7A	.27
	Plasting Housing Bottom	CA-7B	.18
C-1	.001 mfd @ 500V-10% disc, ceramic cap.	CC-A-001-500-10	.09
D-1	1N 48 diode	D-IN48	.60
	Alligator Clip	H-44	.09
	Mic. Connector	J-10	.36
R-1	4.7 megohm ½W 1% Carbon Resistor	RC-4A7M-A-1	.24
	Probe Tip	SM-13	.09
	Cable (3½ ft.)	W-7-PR-38	.27