

6800 SETUP MANUAL

TMR 12/20/00

TESTING FILTER BANDWIDTH AND GROUP DELAY USING THE TUNED PORT

	<u>HARD KEYS</u>	<u>SOFT KEYS</u>	<u>FUNCTION</u>
1.	<u>PRESET</u>		
2.		<u>Full</u>	Resets instrument to factory defaults
3.	<u>SCALAR</u>		
4.		<u>Yes</u>	Changes instrument from S/A to Scalar
5.		<u>Input Selection</u>	Displays input to be measured
6.		<u>Tuned Input</u>	Displays tuned port input soft keys (S/A Port)
7.		<u>Tuned Input</u>	Selects Tuned Port input (S/A Port)
8.	<u>SOURCE</u>	<u>Set Start Freq</u>	Press the hard key numbers and a G, H, K, or Enter key to execute the start frequency
9.		<u>Set Stop Freq</u>	Press the hard key numbers and a <u>G, H, K,</u> or <u>Enter</u> key to execute the stop frequency

CONNECT A CABLE FROM THE SOURCE PORT TO THE SPECTRUM ANALYZER PORT

10.	<u>CAL</u>		
11.		<u>Through Cal</u>	Make through connection as above
12.		<u>Continue</u>	Press continue to calibrate

TEST SET WILL THEN BE READY TO LOOK AT THE THROUGH PASS OF THE FILTER

13.	<u>MARKER</u>		Displays marker soft keys
14.		<u>Active Marker to Max</u>	Takes active marker to peak on trace
15.		<u>Marker Functions</u>	Displays marker functions
16.		<u>Bandwidth</u>	Displays bandwidth soft keys
17.		<u>Bandwidth Search</u>	Measures bandwidth at -3 dB default value
18.		<u>Remove Results Window</u>	Will remove bandwidth information off the screen

DECREASE THE RESOLUTION BAND WIDTH FOR BETTER VIEWING OF THE FILTER SKIRTS

19.	<u>SCALAR</u>		Displays scalar soft keys
20.		<u>Input Selection</u>	Displays input selection soft keys
21.		<u>Tuned Input</u>	Displays Tuned Input soft keys
22.		<u>Set Res BW..</u>	Use arrow keys to select RBW required (3 MHz to 1 KHz)

TO ADD A GROUP DELAY MEASUREMENT TO THE SAME SCREEN

1.	<u>DISPLAY</u>		Displays, Display soft keys
2.		<u>Channel Meas 2</u>	Selects Measurement 2
3.	<u>SCALAR</u>		Displays Scalar soft keys
4.		<u>Group Delay</u>	Displays Group Delay soft keys
5.		<u>Group Delay</u>	Selects Group Delay

CONNECT A CABLE FROM THE SOURCE PORT TO THE SPECTRUM ANALYZER PORT

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|-----|---------------------|------------------------------|---|
| 6. | <u>CAL</u> | | Displays Calibration soft keys |
| 7. | | <u>Through Cal</u> | Selects calibration for Group Delay |
| 8. | | <u>Continue</u> | Completes calibration |
| 9. | <u>SCALE/FORMAT</u> | | Displays Scale and Format soft keys |
| 10. | | <u>Set Scale..</u> | Use arrow keys to select required scale (2 nSec) |
| 11. | <u>MARKERS</u> | | Displays Marker soft keys |
| 12. | | <u>PK-PK</u> | Displays Peak to Peak soft keys |
| 13. | | <u>PK-PK Delay</u> | Selects Peak to Peak Group Delay reading |
| 14. | | <u>Use Sub-range</u> | Selects the use of a Sub-range for PK-PK reading |
| 15. | | <u>Set Sub-range Start..</u> | Use the knob to set the Sub-range Start Flag to the beginning of the flat area of the group delay trace |
| 16. | | <u>Set Sub-range Stop..</u> | Use the knob to set the Sub-range Stop Flag to the end of the flat area of the group delay trace |

THE MARKERS WILL THEN MEASURE THE PEAK TO PEAK DELAY OF THE AREA BETWEEN THE FLAGS

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| 17. | | <u>Measure Deviation</u> | Measures deviation from linear |
| | | <u>Linear</u> | Measures the greatest change in the selected bandwidth |
| | | <u>Parabolic</u> | Measures the greatest rate of change in the selected bandwidth |