

## Product Description:

### Tektronix 2794 10 kHz to 3.25 GHz Spectrum Analyzers

The Tektronix 2794 spectrum analyzer is a wide band, very sensitive receiver. It works on the principle of "super-heterodyne receiver" to convert higher frequencies (normally ranging up to several 10s of GHz) to measurable quantities. The received frequency spectrum is slowly swept through a range of pre-selected frequencies, converting the selected frequency to a measurable DC level (usually logarithmic scale), and displaying the same on the CRT of the Tektronix 2794. The CRT displays received signal strength (y-axis) against frequency (x-axis).

Some applications for Tektronix 2794 Spectrum Analyzers include Site Monitoring: Verify that the frequency and signal strength of your transmitter is accurate. Interference: Before a system is installed you use a Tektronix 2794 spectrum analyzer to verify that the frequencies (you plan to use) are not occupied or if the presence of a very strong signal will interfere with your new setup. Interference can be created by a number of different situations. Other tests that utilize the Tektronix 2794 spectrum analyzer features include antenna isolation, co-channel interference, adjacent channel power, occupied bandwidth, intermodulation, microwave or satellite antenna alignment, and characterization of components.

Manufacturing ATE

Avionics

Broadcasting

CATV

Cellular Radio

Design and Engineering

Nuclear Physics

Two-way radio

## Performance Characteristics of the 2794

Form Factor	Mainframe
Input Impedance	50 Ohm
Minimum Frequency	10 kHz
Maximum Frequency	3.25 GHz
Frequency Accuracy	0.007 %
Zero Span	Yes
Minimum Span	100 Hz
Maximum Span	150 GHz
Minimum Sweep Time	200 us
Maximum Sweep Time	100 s
Minimum Resolution Bandwidth	10 Hz
Maximum Resolution Bandwidth	3 MHz
Minimum Video Bandwidth	0.3 Hz
Maximum Video Bandwidth	30 kHz
Maximum Safe AC Input	1 dBm
Minimum Displayed Average Noise	-125 dBm
Maximum Displayed Average Noise	-80 dBm

Maximum Dynamic Range	134 dB
Maximum Amplitude Uncertainty	5 %
Trigger Source	External,Internal
Trigger Modes	Freerun,TTL
Probe Power	Yes
Noise Source Driver	No

### Programmability/Connectivity of the 2794

User Interface	Proprietary
Ports to Peripheral Devices	GPIB
Test Pattern Storage	10 Patterns
Novram data storage	Yes

### 2794 Life Cycle Data

Out of Production	Nov-01-2000
-------------------	-------------

### 2794 Compliance

CE Compliance	Not on file
UL Compliance	Not compliant

### 2794 Power Requirements

Input Power	Universal (Auto Sense and Switch)
-------------	-----------------------------------

### 2794 Physical Dimensions

Width: 327 mm(12.87 in)  
Height: 175 mm(6.88 in)  
Length: 499 mm(19.64 in)  
Weight: 22.2 kg(48.94 lb)

### Options for 2794

Option	US List Price
07 / 75 OHM INPUT NOT W/OPT 10,11,12	\$750
10 / Freq. range extension 26.5 GHz	\$2,000
11 / Freq. range exten to 40 GHz	\$3,500
12 / Freq. range exten to 60 GHz	\$5,500
13 / Freq. range exten to 140 GHz	\$10,500
14 / Freq. extension to 325 GHz	\$14,500
23 / GRASP SOFTWARE GPIB INTFC,CABLE	\$1,530
30 / Rackmount for 19in W, 5.25in H	\$525

39 / SILVER BATTERY REPLACES LITHIUM	\$50
41 / Digital microwave radio measur	\$450
42 / 110MHZ IF OUT	\$750
95 / CAL DATA REPORT TEST DATA	\$150
96 / CERTIFICATE OF CALIBRATION	\$50
B1 / SERVICE MANUAL	\$250
B2 / OPTIONS MANUAL	\$300
C5 / 5 Years Calibration Services	\$1,225
R2 / Service Assurance: 2 Years Repair Protection	\$590

### **2794 Standard Accessories**

012-0114-00 /N-N /Qty:1  
 103-0045-00 /N male to BNC female adapter /Qty:1  
 337-3274-00 /Rear connector shield /Qty:1  
 50 ohm coaxial /50 ohm coaxial cable /Qty:1  
 Operators Manua /Operators Manual /Qty:1  
 Programmers Man /Programmers Manual /Qty:1