| Measurement Function | | Input characteristics | | |
|--|--|--|---|---|
| Measurement channel: | channels (4-trace display) | Input channel: | 1 ch, 2 ch (Option 10), 3ch (Option 11) | |
| Measurement parameter: | R | Frequency range: | 10 kHz to 150 MHz | |
| measurement parameter: | A/R, R, A (Option 10) | Impedance: Return loss: | Nominal 50 Ω ATT 0 dB 20 dB or m | nore |
| | A/R, B/R, A/B, R, A, B (Option 11) | | ATT 25 dB 25 dB or m | |
| Measurement format | | Max. input level: | ATT 25 dB AMP 0 dB | +5 dBm |
| AC/DC display: | Logarithmic/linear amplitude, phase, group | | ATT 0 dB AMP 0 dB ATT 0 dB AMP 16 dB | -20 dBm 3 -36 dBm |
| | delay, real and imaginary portions of complex number parameters | Input destruction level: | +24 dBm, ±3 VDC | 5 -30 UDIII |
| | Z, R, X (impedance conversion measurement) | Average noise level: | RBW 10 kHz 200 kHz to | 500 kHz -102 dBm |
| | Y, G, B (admittance conversion measurement) | (ATT 0 dB, AMP 16 dB) | | 0 150 MHz -112 dBm |
| | Phase extension display | | RBW 3 kHz 60 kHz to | 500 kHz -107 dBm |
| Smith chart: | Logarithmic/linear amplitude and phase for | | 500 kHz to | o 150 MHz -117 dBm |
| Shirti Giart. | marker reading, real and imaginary portions, R+jX, G+jB | | | 500 kHz -112 dBm |
| | | | | 0 150 MHz -122 dBm |
| | | | RBW 300 Hz 10 kHz to | o 500 kHz -117 dBm o 150 MHz -127 dBm |
| Polar coordinates display: | Logarithmic/linear amplitude and phase for | Resolution bandwidth | 500 KHZ 10 | |
| | marker reading, real and imaginary portions | (RBW): | 3 Hz to 15 kHz (1, 1.5, 2, | 3 4 5 or 7 steps) |
| | | Input cross-talk: | 10 kHz to 500 kHz | 105 dB |
| Signal Source Characteris | tics (23 ±5°C) | put of 000 tunti | 500 kHz to 150 MHz | 120 dB |
| Frequency characteristics | | Signal source cross talk: | 10 kHz to 500 kHz | 105 dB |
| Range: | 10 kHz to 150 MHz | - | 500 kHz to 150 MHz | 120 dB |
| Resolution: | 0.1 Hz | Input connector: | BNC (female) 50 Ω | |
| Accuracy: | ±5 ppm (Typ.) | Automatic offset correction | | |
| | ±1 ppm (Option 20)* | Normalization function: | Compensates the freque | ency characteristics of |
| | (1 MHz or more, when 0 to +50°C, | | the measurement syster | |
| Ctability | after 30 minutes warm-up) | Electric length correction: | Equivalent electric lengt | |
| Stability: | ±2 x 10 [®] /day (Option 20) [*] (after 48 hours warm-up) | - | time can be added to the | |
| | (arter 48 hours warm-up) | | group delay time. | |
| Output characteristics | | Range: | -3 X 10°m to +3 X 10°m | or +10 sec. to -10 sec. |
| Output characteristics: | +21 dBm to -43 dBm | Amplitude characteristics | | |
| Resolution: | 0.1 dB | (absolute characteristics) | | |
| Accuracy: Linearity (50 MHz): | ±0.5 dB (0 dBm, 10 MHz) +21 dBm to -35 dBm ±0.5 dB | Measurement range: | ATT AUTO AMP 0 dB | +5 dBm to -115 dBm |
| Enleanty (50 MHZ). | -35 dBm to -43 dBm ±1.5 dB | (RBW 1 kHz) | ATT 25 dB AMP 0 dB | +5 dBm to -90 dBm |
| Flatness (at 0 dBm output): | 10 kHz to 300 kHz ±2.0 dB | (100 kHz or more) | ATT 0 dB AMP 0 dB | -20 dBm to -115 dBm |
| | 300 kHz to 150 MHz ±1.5 dB | | ATT 0 dB AMP 16 dB | -36 dBm to -122 dBm |
| Impedance (output port 1): | Nominal 50 Ω | Display resolution: | 0.001 dB/div | |
| | Return loss 13 dB or more | Accuracy: | ±0.5 dB (10 MHz, max. ir | nput level) |
| | (at 0 dBm output, Typ.) | Frequency response (at 0 dBm input): | 10 kHz to 1 MHz | 4 dBp-p |
| Signal purity | | (at o ubin input). | 1 MHz to 150 MHz | 3.5 dBp-p |
| Harmonic wave distortion: | <-15 dBc | Dynamic accuracy: | 0 to -10 dBm | ±0.4 dB |
| | : ≤-20 dBc or -60 dBm, whichever is larger | (ATT 25 dBm, AMP 0 dB) | -10 to -60 dBm | ±0.1 dB |
| Phase noise: | ≤-95 dBc/Hz (10 kHz offset) | (100 kHz or more) | -60 to -70 dBm | ±0.2 dB |
| Sweep characteristics | | | -70 to -80 dBm | ±0.6 dB |
| Sweep parameter: | Frequency, signal level | Amplitude characteristics | | |
| Range: | Same as the frequency sweep frequency | (relative characteristics): | Option 10, Option 11 | |
| 5 | characteristic | Measurement range: | ATT AUTO AMP 0 dB | ±120 dB |
| | Level sweep +21 dBm to -43 dBm | ATT 25 dB AMP 0 dB | ATT 20 dB AMP 0 dB | ±95 dB |
| Range setting: | Start/Stop or Center/Span | (100 kHz or more) | ATT 0 dB AMP 0 dB | ±95 dB |
| Range setting. | | | ATT 0 dB AMP 16 dB | ±86 dB |
| Sweep type: | Linear/logarithmic frequency sweep, level | Display resolution: | 0.001 dB/div | amut louch |
| | sweep, sweep of a user-defined segment | Accuracy: Frequency response: | ±0.5 dB (10 MHz, max. ir | • • |
| Sweep time: | Max. 0.05 ms/point (RBW 15 kHz) | requency response: (at 0 dBm input) | 10 kHz to 1MHz 1 MHz to 150 MHz | 3 dBp-p 2 dBp-p |
| Measurement point: | 3, 6, 11, 21, 51, 101, 201, 301, 401, 501, 601, | Dynamic accuracy: | 0 to -10 dBm | 2 авр-р ±0.1 dB |
| measurement point: | or 1201 points | (ATT 25 dB, AMP 0 dB) | -10 to -60 dBm | ±0.05 dB |
| | · | (100 kHz or more) | -60 to -70 dBm | ±0.1 dB |
| Sweep trigger: | Continuous, Single, External | - | -70 to -80 dBm | ±0.3 dB |
| Sweep mode: | Dual sweep (2-channel sweep in the same | | -80 to -90 dBm | ±0.9 dB |
| | frequency range), alternate sweep (2-channel sweep in | Phase characteristics (relativ | e characteristics)** | |
| | different frequency ranges) | Measurement range: | ±180° | |
| <u></u> | | · · · · · · · · · · · · · · · · · · · | Continuous display pos | sible for more than |
| Output form | Circula | | ±180° by the display ex | |
| Output: | Single | Resolution: | 0.01 [°] | |
| | Single, dual (Option 10, Option 11) | Dynamic accuracy: | 0 to -10 dBm ±3.0" | |
| | BNC (female), 50 Ω | (ATT 25 dB, AMP 0 dB) | -10 to -50 dBm | ±1.5 |
| Connector: | | (100 kHz or more) | -50 to -60 dBm | ±2.0° |
| | | | -60 to -70 dBm | ±2.4° |
| Power splitter | Option 10. Option 11 | | 70 to 00 dDm- | |
| Power splitter (output port 2): | Option 10, Option 11 | | -70 to -80 dBm | ±3.6° |
| Power splitter (output port 2): Insertion loss : | Option 10, Option 11 6 dB (Typ.) | ** With a measurement range sett | | |
| Power splitter (output port 2): | | ** With a measurement range sett characteristic values for are not | ing which includes 32.5 MHz, | |
| Power splitter (output port 2): Insertion loss : (Option 10, Option 11) Level tracking : | 6 dB (Typ.) | characteristic values for are not They are guaranteed when the | ing which includes 32.5 MHz, guaranteed. unit is used with a measuremer | , absolute measured phase nt range setting between |
| Power splitter (output port 2): Insertion loss : (Option 10, Option 11) | 6 dB (Typ.) | characteristic values for are not | ing which includes 32.5 MHz, guaranteed. unit is used with a measuremer | , absolute measured phase nt range setting between |
| Power splitter (output port 2): Insertion loss : (Option 10, Option 11) Level tracking : | 6 dB (Typ.) | characteristic values for are not They are guaranteed when the | ing which includes 32.5 MHz, guaranteed. unit is used with a measuremer | , absolute measured phase nt range setting between |

*BNC-BNC cable (A01036-0150) will be attached.

| Phase characteristics (relative) Measurement range: | ±180 [°] Continuous display possible for more than ±180 deg. by the display expansion | |
|---|---|---|
| Resolution: | function 0.01 [°] | |
| Frequency response : | 10 kHz to 1 MHz | 20 ⁻ p-p |
| (at 0 dBm input) | 1 MHz to 150 MHz | 15° p-p |
| Dynamic accuracy: | 0 to -10 dBm | ±1.0 [°] |
| (ATT 25 dB, AMP 0 dB) | -10 to -50 dBm | ±0.3 ⁻ |
| (100 kHz or more) | -50 to -60 dBm | ±0.5° |
| | -60 to -70 dBm | ±1.0° |
| | -70 to -80 dBm | ±3.0° |
| | -80 to -90 dBm | ±8.0 [°] |
| Delay characteristics Range: | Calculated using the foll $r = \Delta \emptyset$ $\Delta \emptyset$: Phase | • • |
| Measurement range: Group delay time resolution: | $r = \frac{\Delta \sigma}{360 \text{ X} \Delta f} \frac{\Delta \sigma}{\Delta f} \text{ Apertu}$ 1 ps to 250 s 1 ps | ire frequency (Hz) |
| Aperture frequency: | Equivalent to ∆f | |
| Apertare frequency. | 100 X 2% | With this resolution |
| | Measurement point - 1 | it is possible to set |
| | 100 X 2% | from this value through about 100% |
| | Measurement point - 1 | of the frequency spa |
| Accuracy: | Phase accuracy | |
| | 360 X Aperture frequence | v (Hz) |
| | | · · · · · · · · · · · · · · · · · · · |
| Error correction functions | Operate II C | |
| Normalization: | Corrects the frequency r | esponse (amplitud |
| 1-nort calibration | phase) during transfer n Corrects the bridge direct | tion the frequence |
| 1-port calibration: | response, and the source | |
| | Error correction requires | |
| | Load. | |
| Data averaging: | Averages data (vector va | alues) for each |
| 5.5 | sweep. | - |
| | Averaging count can be | set from 2 to 999. |
| Transfer full calibration: | High accuracy measuren | a a m t m a a a i h l a u a i m a |
| | ringit accuracy measurem | ient possible using |
| | transfer normalization in | n transfer |
| | transfer normalization in measurement. Error cor | n transfer |
| | transfer normalization in | n transfer |
| | transfer normalization in measurement. Error cor | n transfer |
| Connection with External | transfer normalization in measurement. Error cor Short and Load. | n transfer |
| | transfer normalization in measurement. Error cor Short and Load. Equipment | n transfer rection requires |
| External display signal output | transfer normalization in measurement. Error cor Short and Load. Equipment | n transfer rection requires |
| External display signal output GPIB data output and | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector | n transfer rection requires |
| External display signal output GPIB data output and remote control: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 | n transfer rection requires |
| External display signal output GPIB data output and | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector | n transfer rection requires |
| External display signal output GPIB data output and remote control: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 | n transfer rection requires |
| External display signal output GPIB data output and remote control: Printer port: Serial port: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 | n transfer rection requires |
| External display signal output GPIB data output and remote control: Printer port: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub | n transfer rection requires |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible | n transfer rection requires (VGA) |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, | n transfer rection requires (VGA) 2, 5 and 10 MHz |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible | n transfer rection requires (VGA) 2, 5 and 10 MHz |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector f Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector f Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V | n transfer rection requires (VGA) 2, 5 and 10 MHz or more |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), bochrome LCD |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector in Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), bochrome LCD |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots | 2, 5 and 10 MHz rection requires 2, 5 and 10 MHz pr more 2 ports), ochrome LCD T LCD |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 cochrome LCD T LCD r coordinates, |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector f Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 5 ochrome LCD T LCD 7 coordinates, 6 chart |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 5 ochrome LCD T LCD 7 coordinates, 6 chart |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector f Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith | 2, 5 and 10 MHz rection requires 2, 5 and 10 MHz pr more 2 ports), cochrome LCD T LCD r coordinates, chart indication) |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector of Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smitt (inductance/admittance | (VGA) (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 ports), 2 controme LCD T LCD 7 coordinates, 6 chart indication) nnel |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector if Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith (inductance/admittance | (VGA) (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 ports), 2 controme LCD T LCD 7 coordinates, 6 chart indication) nnel |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: Display format: Measurement condition | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector in Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mom R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith (inductance/admittance Single channel, dual cha (overlay display, split dia | (VGA) (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), cohrome LCD T LCD r coordinates, o chart indication) nnel splay) |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith (inductance/admittance Single channel, dual cha (overlay display, split dis | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 ports), 2 ports), 3 chart 1 cD 3 chart 1 nnel 1 splay) 3 scale/DIV referenc |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: Display format: Measurement condition | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector if Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith (inductance/admittance Single channel, dual cha (overlay display, split dis | n transfer rection requires (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 ports), 2 ports), 3 chart 1 cD 3 chart 1 nnel 1 splay) 3 scale/DIV referenc |
| External display signal output GPIB data output and remote control: Printer port: Serial port: Keyboard: External reference frequency input: Parallel I/O output : (Option 01) Probe power: (Option 10, Option 11) External trigger signal input: Display Section Display unit: Resolution: Display mode: Display format: Measurement condition | transfer normalization in measurement. Error cor Short and Load. Equipment : 15-pin D-sub connector (Conforming to IEEE 488 25-pin D-sub Based on RS-232 IBM-PC/AT compatible Available frequencies 1, ±10 ppm, 0 dBm (50 Ω) of TTL level, 8-bit output (2 4-bit I/O (2 ports) ±12 V BNC connector (female) R3754A 5-inch STN mone R3754B 6.5-inch color TF 640 X 640 dots AC-DC logarithmic/linea polar coordinates, Smith (inductance/admittance Single channel, dual cha (overlay display, split dis | (VGA) (VGA) 2, 5 and 10 MHz or more 2 ports), 2 ports), 2 ports), 5 chordinates, 6 chart indication) 5 nel 5 splay) 5 scale/DIV reference key functions, |

| Auto scale: | The optimum reference level and scale value are automatically set for the current measurement. | | |
|---|--|--|--|
| Backlight: | ON/OFF, no adjustment for the R3754A | | |
| Contrast: | Contrast control provided for R3754A | | |
| Marker Functions | | | |
| Marker display: | Marker readings can be converted to display values corresponding to the respective measurement formats. | | |
| Multi-marker: | 10 individual markers can be set for each channel. | | |
| Delta marker: | Any of the10 markers can be specified as the reference marker enabling delta value measurements between markers. | | |
| Marker couple: | Markers of each channel can be set in coupled or independent form. | | |
| Specific section analysis: | Marker search possible for a section specified by the delta marker. | | |
| MKR search: | MAX search, MIN search, NEXT search | | |
| Marker track: | Search is performed for each sweep. | | |
| Target search: | It is possible to calculate the bandwidth, center frequency, Q at the X dB down point. It is also possible to search the phase 0 degree frequency value and the $\pm X'$ frequency width. deg. frequency width. | | |
| MKR→: | MKR→Reference value, MKR→START, MKR→STOP, MKR→CENTER | | |
| Limit line function: | Limit line can be set for up to 31 segments. Pass/Fail judgments can be performed for each segment. | | |
| Direct analysis function: | Resonator analysis, etc. | | |
| Instrument State Funct | tions | | |
| Save register: | Allows storing condition settings and CAL data in battery backed internal memory. | | |
| Data save/recall: | Allows storing/loading data to/from FDD | | |
| Programming Function | IS | | |
| BASIC control function: | Standard control function allows the control of the main unit as well as other measurement equipment with the GPIB interface. | | |
| Built-in functions: | Allows high-speed analysis of measurement | | |
| CDD function | data. | | |
| FDD function: | data. Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) | | |
| General Specifications | Based on the MS-DOS format FD. Storage capacity | | |
| General Specifications Operating environment | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) | | |
| General Specifications | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) Temperature range +5 to +40°C, humidity range 80% or less (no condensation) Temperature range 0 to +50°C, | | |
| General Specifications Operating environment FDD used: | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) Temperature range +5 to +40°C, humidity range 80% or less (no condensation) | | |
| General Specifications Operating environment FDD used: No FDD used: | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) Temperature range +5 to +40°C, humidity range 80% or less (no condensation) Temperature range 0 to +50°C, humidity range 80% or less (no condensation) | | |
| General Specifications Operating environment FDD used: No FDD used: Storage environment: | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) Temperature range +5 to +40°C, humidity range 80% or less (no condensation) Temperature range 0 to +50°C, humidity range 80% or less (no condensation) -20°C to +60°C 100 VAC to 120 VAC, 220 VAC to 240 VAC, 48 Hz to 66 Hz, 100 VAC and 200 VAC systems | | |
| General Specifications Operating environment FDD used: No FDD used: Storage environment: Power supply: | Based on the MS-DOS format FD. Storage capacity (DD: 720 Kbytes, HD: 1.2 Mbytes, 1.44 Mbytes) Temperature range +5 to +40°C, humidity range 80% or less (no condensation) Temperature range 0 to +50°C, humidity range 80% or less (no condensation) -20°C to +60°C 100 VAC to 120 VAC, 220 VAC to 240 VAC, 48 Hz to 66 Hz, 100 VAC and 200 VAC systems are automatically changed. | | |