| | | (ohms) | Connector | Physical |
|---|---|--|--|--|
| | 59 Series Comparison SV | VR Autotes | ter, 10 MHz to 18 GHz | |
| 36 | <i>0.01–8 GHz:</i> 0.016 ±0.06ρ ² ©③ <i>8–18 GHz:</i> 0.016 ±0.1ρ ² | 50 | GPC-7 | Dimensions: 7.6 x 5.1 x 2.8 cm (3 x 2 x 1 $\frac{1}{8}$ in.) plus connectors Weight: 340 g (12 oz) |
| | 63 Series SWR Aut | totesters, 1 | 0 MHz to 4 GHz | |
| 40@ | 0.01 ±0.06p ² | | GPC7 | <i>Dimensions:</i> 6.7 x 5.1 x 2.54 cm (2 ⁵ / ₈ x 2 x 1 in.) plus connectors <i>Weight:</i> 340 g (12 oz) |
| | | 50 | Type N Male | |
| | | 50 | Type N Female | |
| | 97 Series SWR Aut | otesters, 10 |) MHz to 18GHz | |
| | <u>0.01–8 GHz</u> <u>8–18 GHz</u> | | GPC-7 | Dimensions: 7.6 x 5.1 x 2.8 cm (3 x 2 x 1 $\frac{1}{8}$ in.) plus connectors Weight: 340 g (12 oz) |
| 36 | $0.016 \pm 0.06 \rho^2 0.016 \pm 0.1 \rho^2$ | | | |
| 40 | $0.01 \pm 0.06 \rho^2$ $0.01 \pm 0.1 \rho^2$ | | | |
| 0 35 | $0.018 \pm 0.08 \rho^2 0.018 \pm 0.12 \rho^2$ | | WSMA Male | |
| | | 50 | WSMA Female | |
| - 38 | $0.013 \pm 0.08 \rho^2$ $0.013 \pm 0.12 \rho^2$ | 50 | WSMA Male | |
| 50 | | | WSMA Female | |
| - 35 | $0.018 \pm 0.08 \rho^2$ $0.018 \pm 0.12 \rho^2$ | | Type N Male | |
| 00 | | _ | Type N Female | |
| 7N50-1 NF50-1 | $0.013 \pm 0.08 \rho^2 0.013 \pm 0.12 \rho^2$ | | Type N Male | |
| | | | Type N Female | |
| Dutput Polari ne Constant Power Input | ty: Negative : 2 μs :: 0.5 watts (+27 dBm) | | | |
| r | 40 36 40 35 38 35 38 35 38 oss (from in Dutput Polari ne Constant Power Input nector: Type | 63 Series SWR Aut 40@ $0.01 \pm 0.06\rho^2$ 97 Series SWR Aut 97 Series SWR Aut $0.01-8$ GHz $8-18$ GHz $0.016 \pm 0.06\rho^2$ $0.016 \pm 0.1\rho^2$ 36 $0.016 \pm 0.06\rho^2$ $0.016 \pm 0.1\rho^2$ 40 $0.01 \pm 0.06\rho^2$ $0.018 \pm 0.12\rho^2$ 35 $0.018 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ 35 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ | 63 Series SWR Autotesters, 10 $40@$ $0.01 \pm 0.06\rho^2$ 50 97 Series SWR Autotesters, 10 97 Series SWR Autotesters, 10 97 Series SWR Autotesters, 10 $97 Series SWR Autotesters, 10 97 Series SWR Autotesters, 10 36 0.01 \pm 0.06\rho^2 0.016 \pm 0.1\rho^2 40 0.016 \pm 0.06\rho^2 0.018 \pm 0.12\rho^2 40 0.018 \pm 0.08\rho^2 0.013 \pm 0.12\rho^2 35 0.013 \pm 0.012\rho^2 50 35 0.013 \pm 0.12\rho^2 35 0.013 \pm 0.12\rho^2 38 0.013 \pm 0.12\rho^2 38 0.013 \pm 0.12\rho^2 0.013 \pm 0.08\rho^2 0.013 \pm 0.12\rho^2 0.013 $ | 63 Series SWR Autotesters, 10 MHz to 4 GHz GPC7 40④ $0.01 \pm 0.06\rho^2$ 50 GPC7 Type N Male Type N Male Type N Female 97 Series SWR Autotesters, 10 MHz to 18GHz 97 Series SWR Autotesters, 10 MHz to 18GHz 36 $0.01 \pm 0.06\rho^2$ $0.016 \pm 0.1\rho^2$ GPC-7 40 $0.01 \pm 0.06\rho^2$ $0.016 \pm 0.1\rho^2$ WSMA Male 35 $0.018 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ So WSMA Female 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Male Type N Male 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Male Type N Male 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Male Type N Male 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Female Type N Male 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Female Type N Female 38 $0.013 \pm 0.08\rho^2$ $0.013 \pm 0.12\rho^2$ Type N Female Type N Female Soss (from input to test port): 6.5 dB nominal Type N Female Type N Female Type N Female |

Table 1. SWR Autotester Performance Specifications

 \odot Where ρ is the reflection coefficient being measured. Accuracy includes the effects of test port reflections and directivity.

② When used with 28A50-1 Precision Termination. The effective directivity of the SWR Autotester can be increased to 60 dB by using the Ripple Extraction return loss measurement technique with the 18A50 Air Line and 29A50-20 Offset Termination.

 $\ensuremath{\textcircled{3}}$ See paragraph 4 for explanation of accuracy and other terms.

 \circledast 46 dB directivity available as Option 1. Option 1 accuracy: 0.005 $\pm 0.06 \rho^2.$