

<b>PARAMETER</b>	<b>BTS1001A/B</b>	<b>HP 5518A/B</b>
Laser Type	Helium-neon, continuous wave, two-frequency laser	Helium-neon, continuous wave, two-frequency laser
Heat Dissipation	23 watts during operation, 35 watts during warmup	23 watts during operation, 35 watts during warmup
Power Input Requirements	+15 Volts +/- -0.3 Volts at 25 Amperes maximum	+15 Volts +/- -0.3 Volts at 25 Amperes maximum, -15 Volts +/--0.13 Volts at 0.02 Ampere maximum
Vacuum Wavelength	632.99137 nm (nominal)	632.99137 nm (nominal)
Frequency Stability (one hour)	.002ppm	.002ppm
Frequency Stability (lifetime)	.02ppm	.02ppm
Vacuum Wavelength Accuracy (3 sigma, lifetime):	0.05 ppm	0.1 ppm
Beam Diameter	6 mm typical	6 mm typical
Laser Power Output	> 0.2 mW ; < 1 mW	> 0.18 mW ; < 1 mW
Warm-up Time	Less than 10 minutes (5 minutes typical)	Less than 10 minutes (5 minutes typical)
Dimensions	42.3 x 10.9 x 16.8 cm	47.9 x 11.8 x 19.2 cm
Signal Output	Differential square wave	Differential square wave
Measuring Range	0 - 40 meters	0 - 40 meters
Receiver	Internal	Internal
Cable Clearance	7.6 mm (3 in) beyond back panel	10.16 mm (4 in)
Storage	Temperature: -40 to +75 degrees C	Temperature: -40 to +75 degrees C
Magnetic Field	Altitude: 15,240 meters < 5.25 Gauss within 5 m radius	Altitude: 15,240 meters < 5.25 Gauss within 5 m radius

Note: Broad Tech System 1001B is a direct replacement of HP5518A/B. It has the same mechanical mounting locations and power connection pin-out.