

TEM-F-442/1~20mW (TEM₀₀)

BLUE DIODE LASER AT 442NM

442 nm blue laser is made features of TEM₀₀ mode, ultra compact, long lifetime, low cost and easy operating, which is used in measurement, communication, spectrum analysis, etc



SPECIFICATIONS

| | | |
|---|---|-------------------------|
| Wavelength (nm) | 442±5 | |
| Output power (mW) | >1,2,3.....,20 | |
| Transverse mode | TEM ₀₀ | |
| Operating mode | CW | |
| Ellipticity | >0.98 | |
| Beam quality (M ²) | <1.1 | |
| Power stability (rms, over 4 hours) | <1%, <3%, <5% | |
| Pointing stability after warm-up (mrad) | <0.05 | |
| Polarization ratio | no fixed polarization | >50:1 (>100:1 optional) |
| Warm-up time (minutes) | <5 | |
| Beam divergence, full angle (mrad) | <1.0 | |
| Beam diameter at the aperture (mm) | ~1.0 | |
| Beam height from base plate (mm) | 25 | |
| Operating temperature (°C) | 10~35 | |
| Power supply (90-264VAC) | PSU-III-LED | PSU-III-FDA |
| Modulation option | TTL/Analog 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz, and TTL on/off | |
| Expected lifetime (hours) | 10000 | |
| Warranty period | 1 year | |



| TEM-F-442 | PSU-III-LED | PSU-III-FDA |
|---|--|---|
|  <p>111(L)×58(W)×45(H) mm³, 0.74kg</p> |  <p>154 (L) ×155(W) ×95 (H) mm³, 1.5kg</p> |  <p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p> |
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