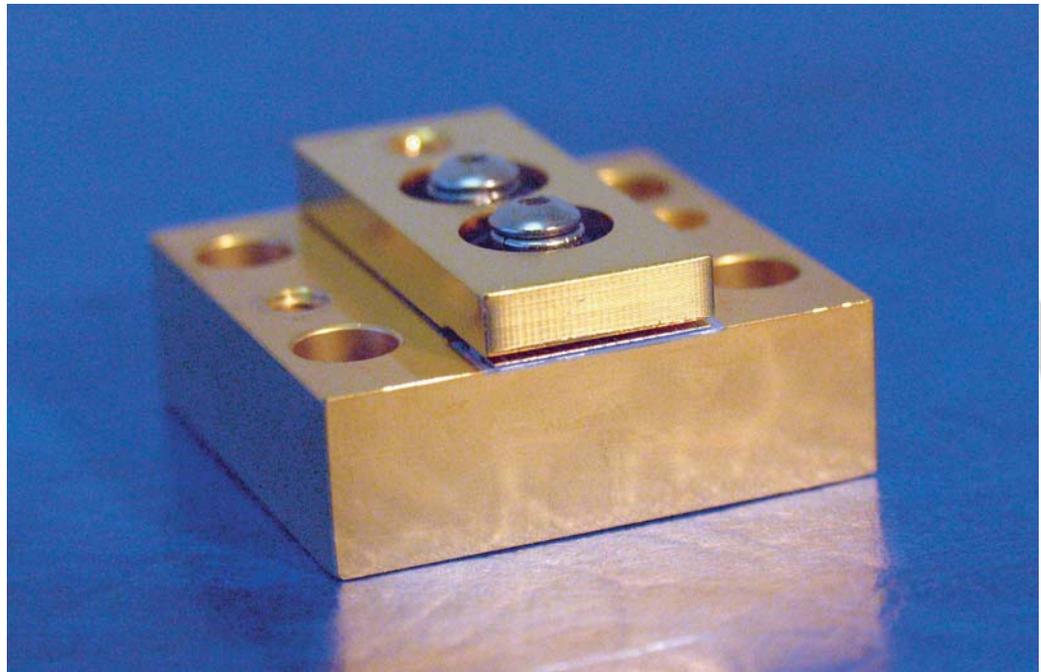


40W CW 19-Emitter Laser Diode Array

Reference Number: ARR97C040-1

Cs PACKAGE

- Diamond Turned
- Directly Bonded Laser Diode Array
- Low Smile Package
- Available Wavelengths (790-1550nm)



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	25°C Heat Sink	40	---	---	W
Operating Current ⁽²⁾	40W at 25°C Heat Sink	---	41	46	A
Threshold Current	25°C Heat Sink	---	7	10	A
Center Wavelength	40W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	40W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	40W at 25°C Heat Sink	---	2.0	---	nm
Wavelength Shift	---	---	0.25	---	nm/°C
Beam Divergence FWHM	---	---	35x10	---	° x °

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink	---	0.006	0.012	ohms
Operating Voltage	25°C Heat Sink, 40W	---	1.9	2.1	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	50A
Reverse Current	25μA
Reverse Voltage	0V
Operating Temperature Range ⁽³⁾	-20°C to 50°C
Storage Temperature Range ⁽³⁾	-40°C to 85°C

NOTES

- (1) These specifications apply for operation at 808nm. Other wavelengths available upon request.
- (2) Beginning of life
- (3) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

NORTHROP GRUMMAN



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