GEHT International

PRODUCT SPECIFICATION

30 W 977 nm SINGLE EMITTER LASER DIODE ARRAY CEDAR-300µm UNMOUNTED BARE BAR

PRODUCT OVERVIEW

Product Code: CEDAR-300
Emitter Type: Multimode single emitter array, bare bar
Emitters per Bar: 19
Recommended Optical Output Power (per emitter): 30 W
Wavelength Class: 977 nm
Delivery Format: Unmounted bare bar
Manufactured: 2021-10

ELECTRO-OPTICAL CHARACTERISTICS TARGET SPECIFICATION ON SUBMOUNT

(CHIP ON AIN SUBMOUNT, CW OPERATION)

Threshold Current
Typical: 1.55 A

Operating Current
Typical: 31 A

Operating Optical Power
Typical: 30 W

Voltage at I (OC)
Typical: 1.56 V

Lasing Wavelength (OC)
Typical: 977 nm

PL Wavelength
Minimum: 948.8 nm
Typical: 950.8 nm
Maximum: 952.8 nm

Electro-Optic Efficiency
Typical: 63 %

Degree of Polarization, TE Mode (DOP)
Typical: 90 %

Fast-axis divergence at I (OC)
Typical: 45 deg

Slow-axis divergence at I (OC)
Typical: 10.3 deg

Near Field Width at I (OC)
Typical: 285 µm

MECHANICAL DIMENSIONS

Cavity Length
Typical: 5 mm

Chip Width
Typical: 500 µm

Chip Thickness
Typical: 115 µm

Emitter Width
Typical: 300 µm

Array Length
Typical: 10 mm

Array Width
Typical: 5 mm

Trench Pitch for Cleaving
Typical: 500 µm

Chips per Bar
Typical: 19

P-side Metallization: Suitable for Au/Sn solder
N-side Metallization: Suitable for gold ultrasonic wire bonding

DELIVERY INFORMATION

Packaging: Unmounted bare bar

Request full specification from support@gehtmarketplace.com