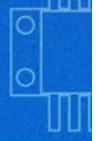


# Spectrolab

Sensor Products



[www.spectrolab.com](http://www.spectrolab.com)

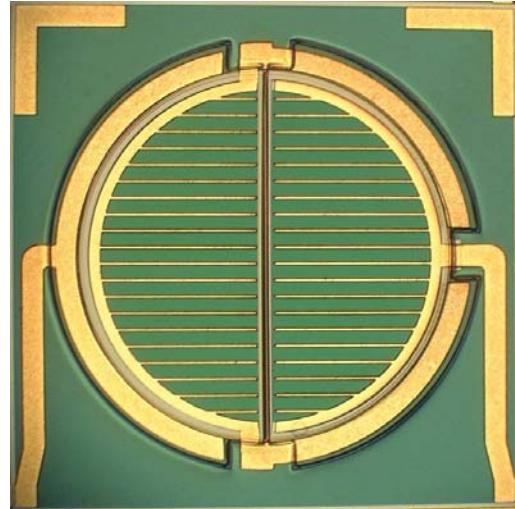


## 043580: 2V Power-by-Fiber GaAs Power Converter

### Features

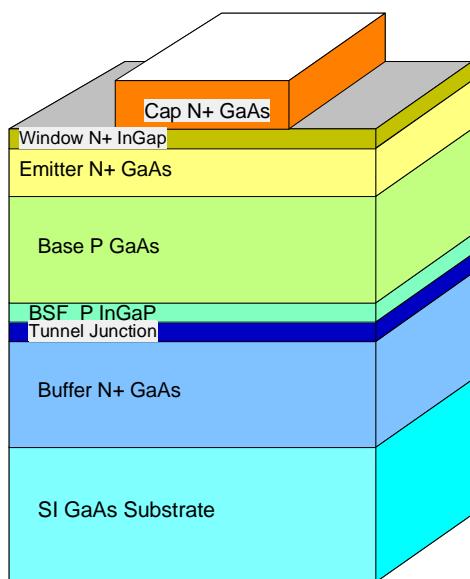
- Monolithic Power-by-Fiber GaAs Power Converter consisting of two cells in series
- 1.5mm diameter active area for easy alignment
- Available in die form or packaged in TO packages with FC, ST, SMA connectors or alternatives
- Single and multimode fiber compatible
- Over 1W of input power possible
- Nominal 30-35% conversion efficiency over variety of input levels
- $V_{mp} > 1.9V$  compatible with DC/DC converters
- Higher voltage design capability
- Low production cost

### Sample Device Die



2V Power-by-Fiber converter micrograph.  
Connection pads are compatible with ribbon  
and wire bonding or soldering

### Power By Fiber N/P Device Structure



Power-By-Fiber N/P Epitaxial basic device structure  
fabricated on semi-isolating GaAs substrate.

### Applications

- Remote sensing requiring very high isolation
- RF shielded power

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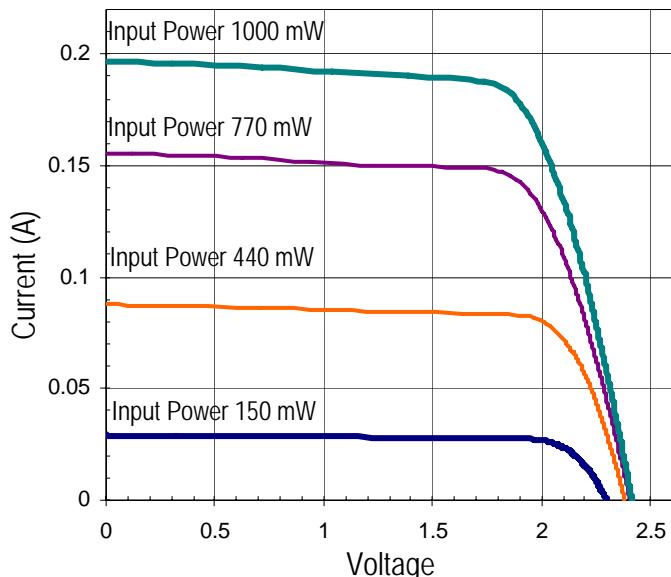
# Spectrolab

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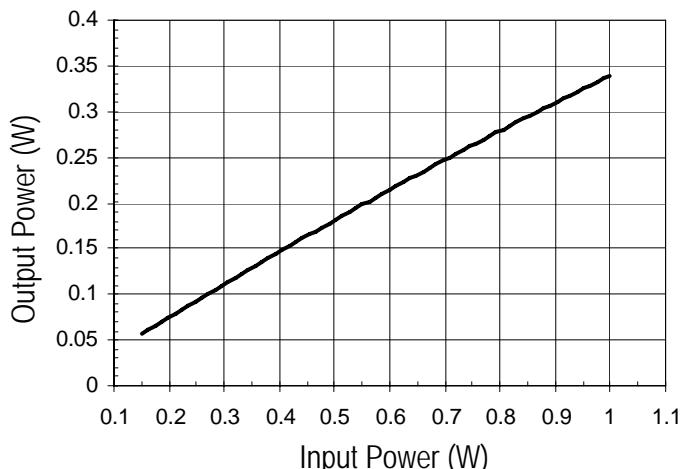


[www.spectrolab.com](http://www.spectrolab.com)

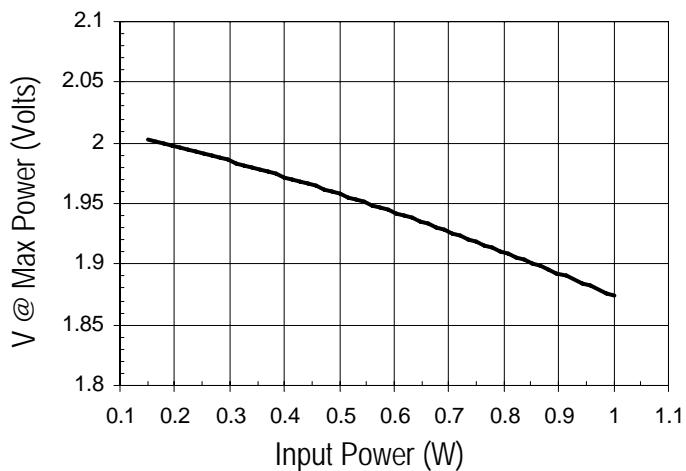
## IV Characteristics vs. Input Power



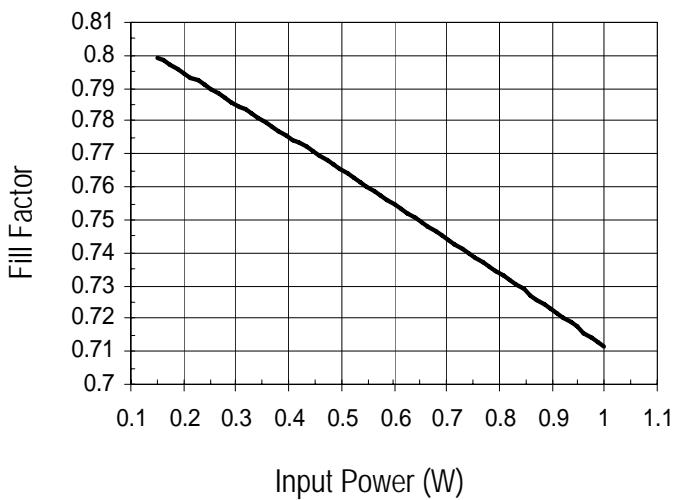
## Power Output vs. Input Power



## Max Power Voltage vs. Input Power



## Device Fill Factor vs. Input Power



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The information contained on this sheet is for reference only. Actual specifications for delivered products may vary. 04/05/06

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