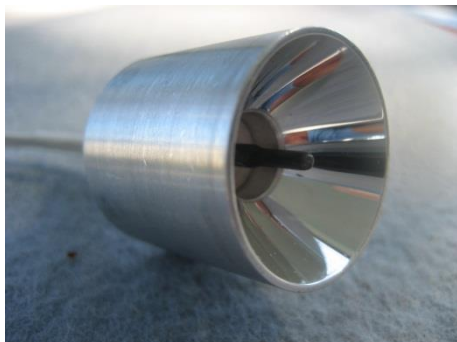


## Mini Infrared Source Series 18

1



IR-18-P Parabolic Reflector



IR-18-E Elliptical Reflector

- ✓ Silicon Nitride Emitter mounted in an Parabolic Reflector or an Elliptical Reflector
- ✓ Robust and Efficient
- ✓ 1150°C High Output Design

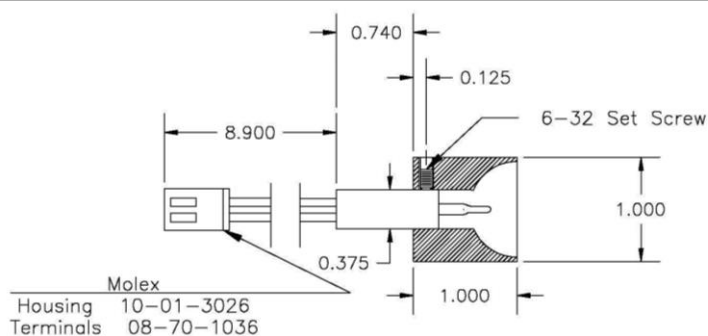
The IR-18 Series is designed for those customers who require higher temperatures and greater output from their infrared source. These emitters are manufactured using a patented silicon nitride material. The advanced ceramic technology ensures a very stable product. Their robust design ensures intrinsic physical and thermal strength. When operated at 12 volts/18 watts the IR-18 reaches 1150°C.

The IR-18-P emitters are mounted in a 1 inch parabolic reflector for extremely efficient collimation of energy. The IR-18-E emitters are mounted in a 1 inch elliptical reflector with an external focal point that is 1/2 inch in front of the clear aperture.

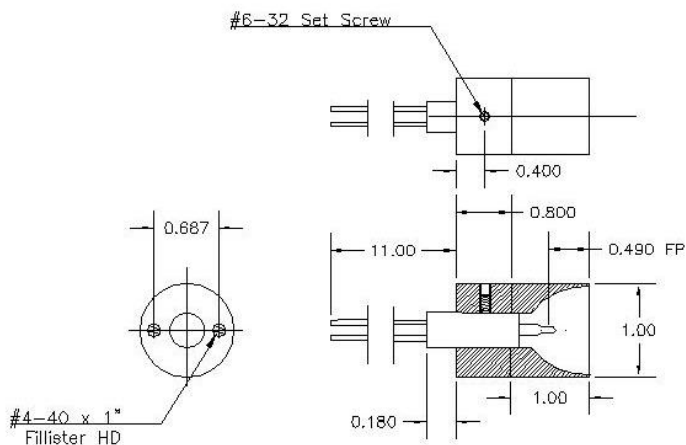


## Recommended Operating Parameters

IR-18	
<b>Voltage</b>	12.0 volts (AC or DC)
<b>Temp</b>	1150° C
<b>Current</b>	1.5 amperes
<b>Power</b>	18.0 watts
<b>Life</b>	5000 Hours at 12 volts
<b>Emissivity</b>	0.75
<b>Active Area</b>	1.5 mm dia. X 4.1 mm



IR-18-P (all dimensions in inches)

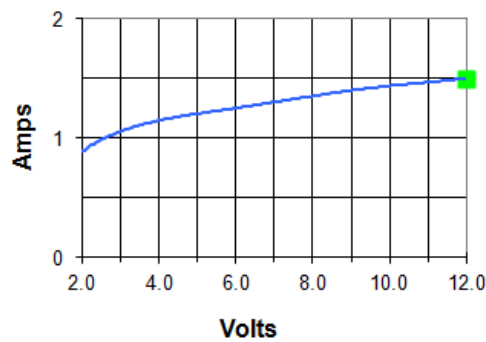




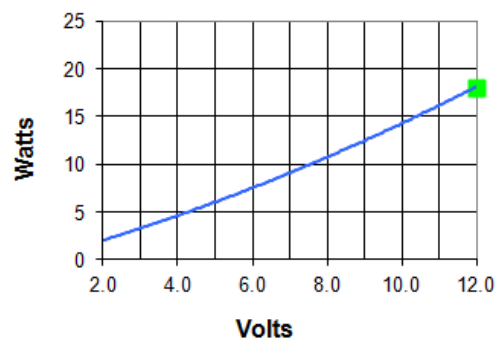
## Engineering Data Charts

### IR-18

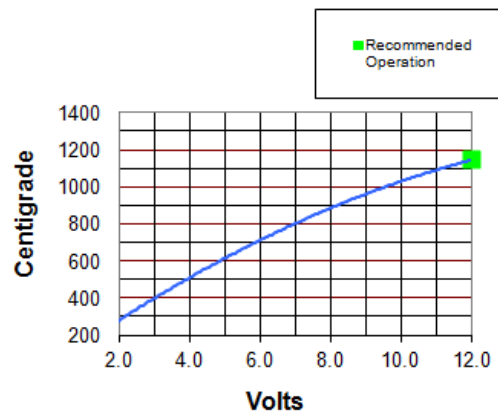
#### Current vs Voltage



#### Power vs Voltage

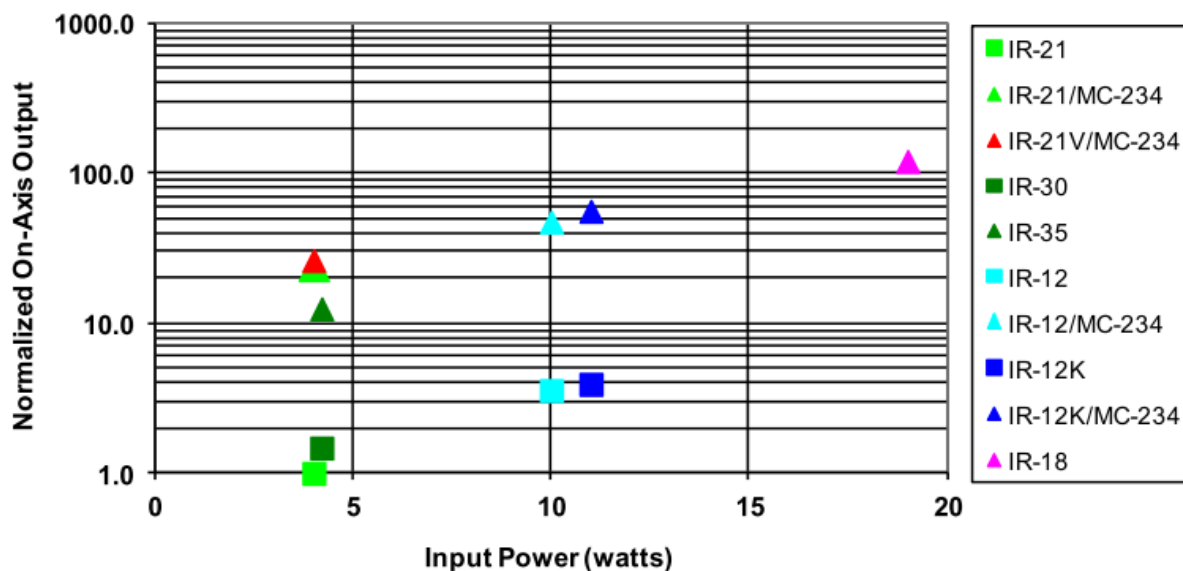


#### Temperature vs Voltage





## Relative On-Axis Output vs Input Power



## Spectral Radiance of a Perfect Blackbody at Different Temperatures

