

# Carley Infrared Sources

CARLEY LAMPS PRODUCES SEVERAL MINIATURE INFRARED SOURCES. OFFERED BELOW ARE FIVE "INTRODUCTORY" INFRARED SOURCES WHICH WILL WORK FOR A VARIETY OF APPLICATIONS OR PROVIDE A POINT OF REFERENCE FOR A CUSTOM MADE INFRARED SOURCE.

MOST CUSTOMERS REQUIRE A SPECIFIC INFRARED SOURCE FOR THEIR UNIQUE APPLICATION AND THIS IS WHERE CARLEY CAN HELP. INFRARED CONSIDERATIONS INCLUDE: DIMENSIONAL REQUIREMENTS, POWER CONSUMPTION, HEAT GENERATION, WAVELENGTH REQUIREMENTS, LIGHT OUTPUT VOLUME, PLATING REQUIREMENTS, REFOCUSING REQUIREMENTS AND COST.

CARLEY LAMPS CURRENTLY PRODUCES OPEN, CLOSED & O-RING SEALED SOURCES AND WE CAN DESIGN INFRARED SOURCES IN PARABOLIC & ELLIPTICAL REFLECTORS WITH SAPPHIRE, ZINC SELENIDE OR CALCIUM FLUORIDE TRANSMISSION WINDOWS. CARLEY HAS PRODUCED SEVERAL FREE STANDING INFRARED SOURCES AS WELL. CURRENTLY CARLEY LAMPS' INFRARED SOURCE FILAMENTS ARE WOUND WITH KANTHAL OR NICHROME MATERIALS.

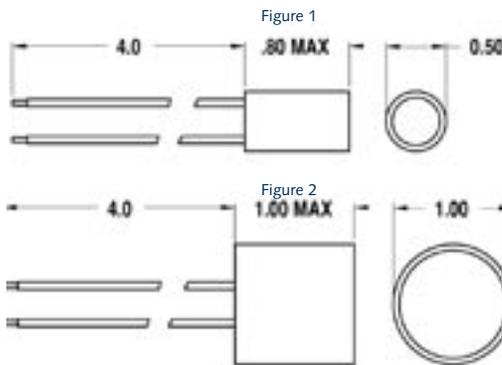
CARLEY LAMPS ENGINEERS WILL WORK WITH YOU EVERY STEP OF THE WAY TO ENSURE THAT THE DEVELOPMENT, PROTOTYPE AND FINAL ASSEMBLY OF YOUR INFRARED SOURCE IS CORRECT AND TO YOUR SATISFACTION. NOT ONLY IS IT CARLEY LAMPS' GOAL TO ACCOMMODATE YOUR REQUEST, BUT WE STRIVE TO EXCEED YOUR EXPECTATIONS AND KEEP YOU SATISFIED.

CARLEY LAMPS HAS PRODUCED INFRARED SOURCES AS SMALL AS 0.25 INCHES UP TO 3.00 INCHES IN DIAMETER. WE CURRENTLY WORK WITH ALUMINUM HOUSINGS AND HAVE COATED REFLECTORS WITH GOLD AND OTHER APPROPRIATE MATERIALS PER CUSTOMER REQUEST. CONTACT CARLEY LAMPS TO DISCUSS YOUR INFRARED REQUIREMENTS.

SOURCE No.	VOLTS	AMPS.	WATTS	WINDOW TYPE	FIGURE
919	5.0	.50	2.5	SAPPHIRE	1
921	5.0	1.50	7.5	SAPPHIRE	2
1120	5.0	1.50	7.5	SAPPHIRE	1
981	5.0	.50	2.5	ZINC SELENIDE	1
982	5.0	1.50	7.5	ZINC SELENIDE	2

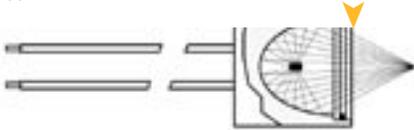
## Notes concerning the 5 sources listed above...

1. ALUMINUM BODIES
2. 28 GAGE TEFLON LEADS
3. ARGON FILLED
4. O RING SEALED (HERMETIC)
5. KANTHAL FILAMENT 975 C
6. 2000 HOUR LIFE
7. AGED AND TESTED
8. BEST OPERATED IN HORIZONTAL POSITION
9. AC OR DC POWER ACCEPTABLE
10. ALL SOURCES ABOVE ARE PARABOLIC



## Note: Elliptical I/R sources built to Typical Layout (Ellipsoid Shown)

Sapphire, Zinc Selenide or Calcium Fluoride transmission window.



Note: an open infra red source will provide approximately 2 1/2 times the volume of I/R light at 15 microns than an I/R source with a "Transmission Window".

