

pulsIR™ High Power, Multi- Element Devices

DESCRIPTION

To meet customer demands for more IR power, Ion Optics has added multi-element devices to our pulsIR line of broadband infrared light sources. These new devices feature 2 or 4 filaments which may be powered together or independently to provide very high intensity infrared output. As a member of the pulsIR family, this device features a low thermal-mass filament that has been ion-beam treated for high infrared emissivity. These electrically-pulsed, high intensity infrared radiators provide intense IR output while operating at relatively low temperature. This improves power efficiency, extends lifetime, and reduces the parasitic heating of system optics and detectors. They may be operated constant or pulsed at rates up to 10 Hz enabling the design of smaller and simpler systems that do not require the added complexity of a mechanical chopper. Samples in any configuration are available for \$80 each.



PART NUMBERS

Window	Wavelength	2-Strip	4-Strip
None	2-20 μm	NL82LNC	NL84LNC
Sapphire	2-5 μm	NM82ASC	NM84ASC
CaF ₂	2-10 μm	NL82ACC	NL84ACC

SPECIFICATIONS

Attribute	Nominal Value	Range
Device Resistance (per strip)	1.5 Ω	± 0.2
Resistance Matching (strip-to-strip within a device)	$\pm 0.1 \Omega$	-
Rated Drive Power (per strip)	1.6 Watts	± 0.1
Temperature Rating	850 C	-
Modulation Rate (for full turn off/on)	Constant - 5 Hz	70% Mod @ 10 Hz
Ouput Pattern	Lambertian	-

PACKAGE

