

New Customer / New Application Initial Interview

Please request new customers/new application design to provide brief description for their application and requirements to IR emitter. The answers to questions listed below will assist us in emitter selection process.

1. General Information.

1.1. Type of application or the instrument where the emitter will be used.

1.2. Has the customer used IR emitters in their application or instrument before? If they have used IR emitters before, what are the main reasons the customer is searching for alternative sources.

1.3. What is the environment where the source/instrument will be used? (indoors/outdoors, ambient temperature/humidity level, exposure to unusual ambient environment, possible shock or vibration)

1.4. Will the source/instrument work 24/7? How many hours per day/week that the source will be on?

2. Parameters of the emitter.

2.1. Electrical Parameters.

2.1.1. Will the emitter be driven by constant power/voltage/current?

2.1.2. Are there any limitations for the power supply (power/voltage/current)?

2.1.3. Does the application require modulation? Will modulation be achieved mechanically (chopper) or electrical modulation of the source? If required, what is the modulation frequency?

2.2. Mechanical Parameters.

2.2.1. Preferable dimensions of the emitter

2.2.2. Mounting preferences (circuit board/independent module)

2.2.3. Preferable dimensions of the emitting area

2.2.4. Does the instrument design require a reflector (parabolic/elliptical)? Are there any restrictions on dimensions of the emitter with reflector?

2.3. Spectral Parameters.

2.3.1. Wavelength/wavelength range targeted in the application (in microns).

2.3.2. Desired filament temperature (degrees C)

2.3.3. Sensitivity of the design to temperature uniformity of the emitting area.

2.3.4. Requirements to filter emission to particular wavelength range.

3. Instrument/Application Design.

3.1. What is the designed distance from IR Emitter to target/detector (length of optical path)?

3.2. What is the area of the target/detector?

3.3. Provide a sketch/schematic drawing of the module from the emitter to the target/detector