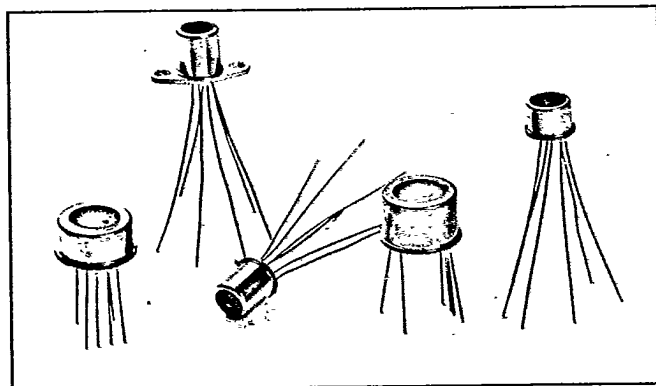
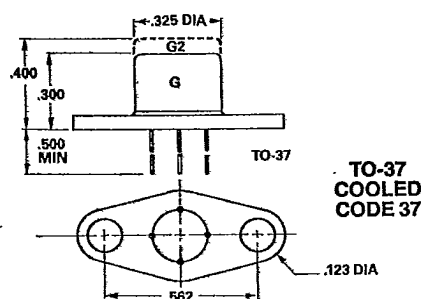
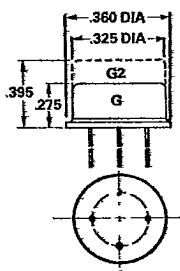
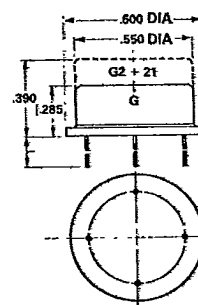


**NEW ENGLAND PHOTOCONDUCTOR**

## Lead Selenide Thermoelectrically Cooled Detectors Series G-G2-G21

**FEATURES**

- Hermetically Sealed Packages
- Customized Wavelength Response
- Customized Test Procedure
- Guaranteed Delivery
- 2 Year Guarantee
- Customized Filters Available

TO-37  
COOLED  
CODE 37TO-5  
COOLED  
CODE 5TO-8  
COOLED  
CODE 8**Electrical Specifications**

| Test Conditions at 25° C        | G         | G2        | G21       |
|---------------------------------|-----------|-----------|-----------|
| $D^* (Pk, 1000, 1) \times 10^9$ | 7.0       | 12.0      | 15.0      |
| Wavelength Cut-off Microns      | 5.2       | 5.3       | 5.3       |
| Peak Wavelength Response        | 4.3       | 4.5       | 4.5       |
| Time Constant $\mu$ Seconds     | 10        | 15        | 20        |
| Resistance Megohms              | 1-7       | 1-10      | 1-15      |
| Operating Temperature, °C       | -20       | -30       | -45       |
| Cooler Power                    | 1.2V/1.8A | 1.3V/1.6A | 2.2V/1.2A |

**HOW TO ORDER:**

Select the proper electrical type (G, G2, G21) and match it with the proper mechanical and package code number. Example: G2-1-5, G-2-37, G21-2-8. The active areas listed above are considered standard sizes. Special sizes are available upon request.

**Mechanical Specifications**

| Code Number | Active Area |    | Bias Voltage |         | Typical VW-1 Responsivity |       |       | Package Size |
|-------------|-------------|----|--------------|---------|---------------------------|-------|-------|--------------|
|             | Inches      | mm | Typical      | Maximum | -20                       | -30   | -45   |              |
| 1           | .040        | 1  | 50           | 100     | 9000                      | 13000 | 16000 | TO5-37-8     |
| 2           | .080        | 2  | 100          | 200     | 5000                      | 8000  | 10000 | TO5-37-8     |
| 3           | .120        | 3  | 150          | 300     | 3000                      | 5000  | 6500  | TO5-37-8     |
| 4           | .200        | 5  | 250          | 500     | 2000                      | 3000  | 3500  | TO8          |

See Page 15 for additional technical information.