



**RADIO MANUFACTURERS ASSOCIATION**  
**ENGINEERING DEPARTMENT**

RMA TYPES

Release No. 452

3K23  
3K21  
3K22  
3K30

November 10, 1945

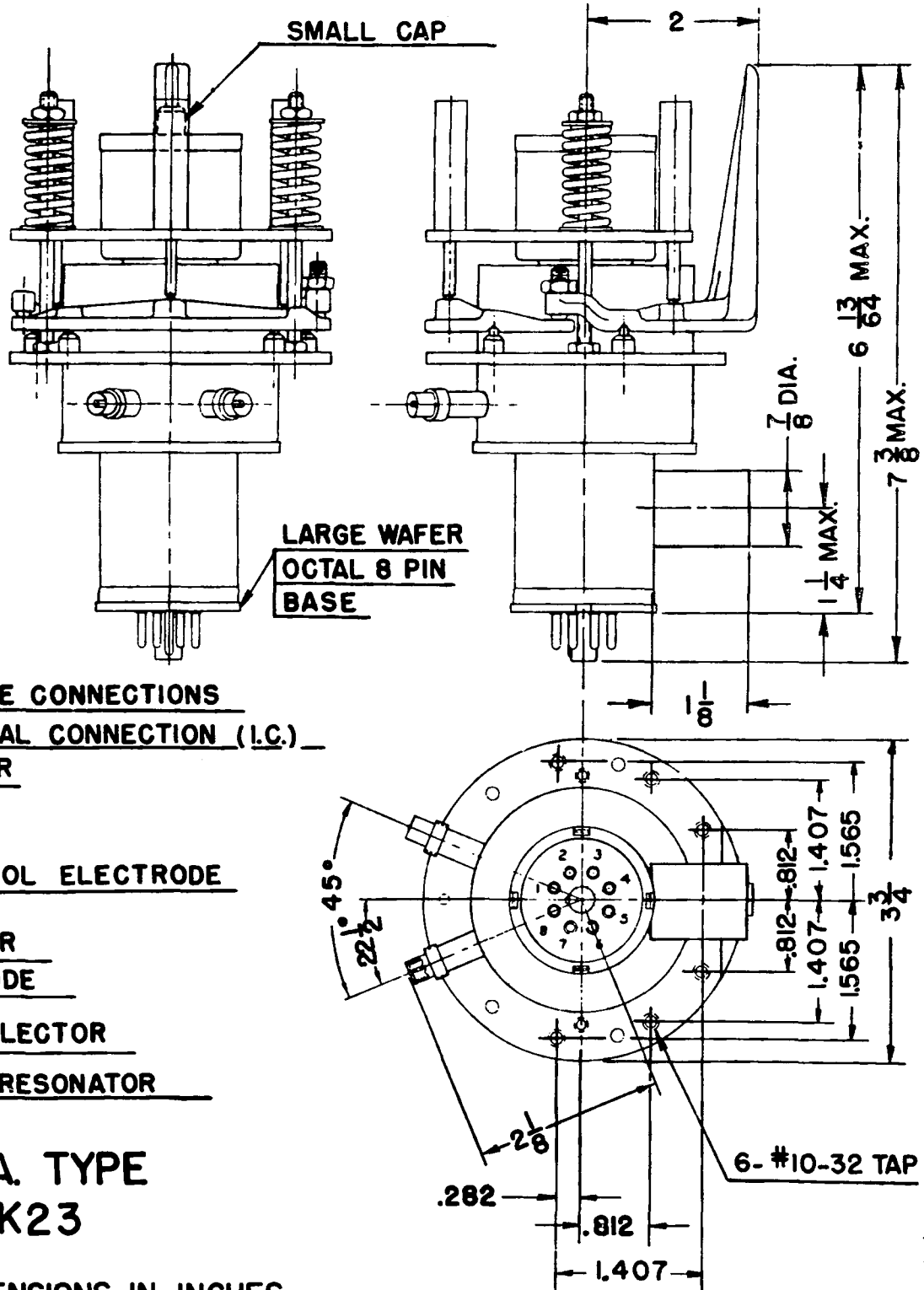
sponsored by:  
Sperry Gyroscope Co., Inc.

| Type Designation                             |           | 3K23                  | 3K21            | 3K22            | 3K30            |
|----------------------------------------------|-----------|-----------------------|-----------------|-----------------|-----------------|
| Reservation No.                              |           | 5213                  | 5157            | 5158            | 5217            |
| Type Tube                                    |           | Reflex                | 2-cavity        | 2-ca.           | 2-cavity        |
| Maximum Ratings                              |           |                       |                 |                 |                 |
| Acceleration voltage                         | Volts d-c | 1000                  | 3000            | 3000            | 3000            |
| Beam current                                 | Ma        | 90                    | 150             | 150             | 150             |
| Beam power input                             | Watts     | 80                    | 450             | 450             | 450             |
| Control electrode voltage                    | Volts d-c | 20 to<br>-200V.       | 0 to<br>-200    | 0 to<br>-200    | 0 to<br>-200    |
| Control electrode current                    | Ma        | 4.0                   | 3.0             | 3.0             | 3.0             |
| Reflector voltage (referred to<br>cathode)   | Volts     | -1500                 | ----            | ----            | ----            |
| Reflector current, normally zero             | Ma        | 2                     | ----            | ----            | ----            |
| Mechanical tuning range                      | Mc        | 950 to<br>1150        | 2300 to<br>2725 | 3330 to<br>4000 | 2700 to<br>3330 |
| Electronic tuning range<br>(Depends on mode) | Mc        | a) 4<br>b) 10         | 10              | 10              | 10              |
| Temperature stability (-10°C to +40°C)       | Mc        | 1                     | ----            | ----            | ----            |
| R.F. Power Output maximum                    |           | 1 - 5                 | 20-40           | 20-40           | 20-40           |
| Tube dimensions                              |           | See outline drawings. |                 |                 |                 |

a) high power mode  
b) low power mode

ALL DIMENSIONS  
NOMINAL UNLESS  
OTHERWISE NOTED.

June 20, 1947



**R.M.A. TYPE**  
**3K23**

ALL DIMENSIONS IN INCHES  
NOMINAL UNLESS OTHERWISE NOTED.