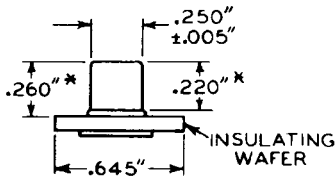




# BASES

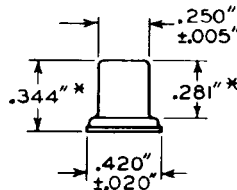
## 1-TERMINAL TYPES (CAPS)

### MINIATURE WITH WAFER



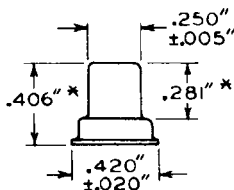
JETEC No. CI-4  
RCA No. M399

### SKIRTED MINIATURE



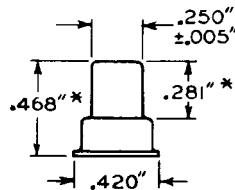
JETEC No. CI-3  
RCA No. 3933

### SKIRTED MINIATURE



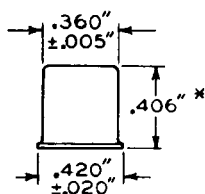
JETEC No. CI-2  
RCA No. 3927

### SKIRTED MINIATURE



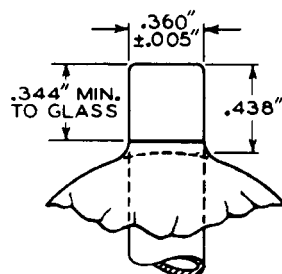
JETEC No. CI-33

### SMALL



JETEC No. CI-1  
RCA No. 3907

### SMALL WITH TUBULAR SUPPORT



CONNECTOR SHOULD NOT EXERT MORE THAN 7 POUNDS RADIAL COMPRESSION AT ANY POINT AROUND THE CIRCUMFERENCE OF THE CAP.

JETEC No. CI-34  
RCA No. 3999

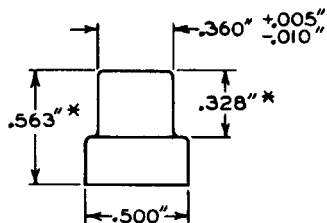
\* Add 0.020" for solder on finished tube.



# BASES

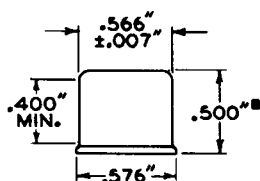
## 1-TERMINAL TYPES (CAPS)

### SKIRTED SMALL



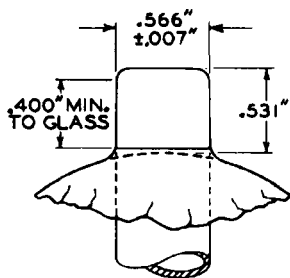
JETEC No. CI-22

### MEDIUM



JETEC No. CI-5  
RCA No. 3903

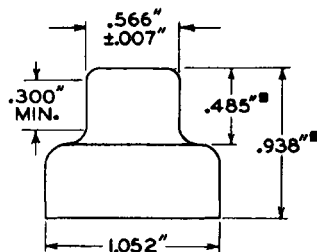
### MEDIUM WITH TUBULAR SUPPORT



CONNECTOR SHOULD NOT EXERT MORE THAN 10 POUNDS RADIAL COMPRESSION AT ANY POINT AROUND THE CIRCUMFERENCE OF THE CAP.

JETEC No. CI-39  
RCA No. R7062

### SKIRTED MEDIUM



JETEC No. CI-14  
RCA No. 3980

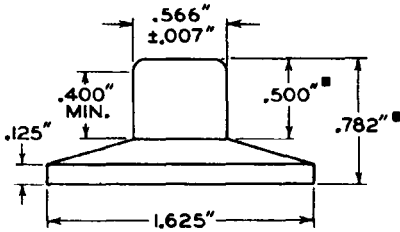
\* Add  $0.020''$  for solder on finished tube.

■ Add  $0.040''$  for solder on finished tube.

**RCA**  
**BASES**

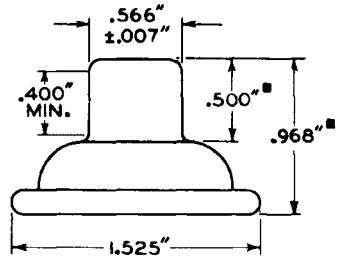
1-TERMINAL TYPES (CAPS)

**SKIRTED MEDIUM**



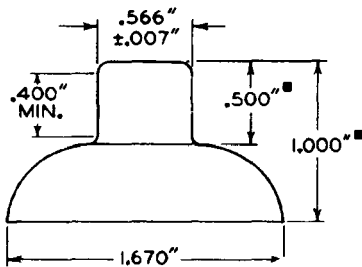
JETEC No. CI-29

**SKIRTED MEDIUM  
WITH ROLLED EDGE**



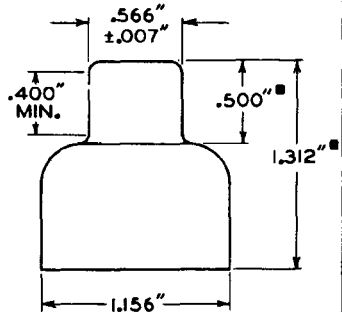
JETEC No. CI-19  
RCA No. 3940

**SKIRTED MEDIUM**



JETEC No. CI-27  
RCA No. 3985

**SKIRTED MEDIUM**



JETEC No. CI-6  
RCA No. 3904

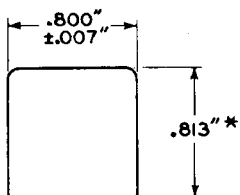
■ Add 0.040" for solder on finished tube.



# BASES

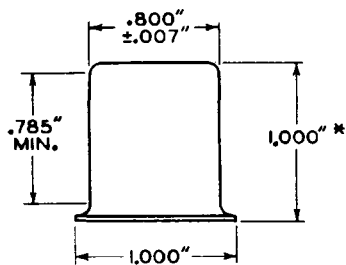
## 1-TERMINAL TYPES (CAPS)

### LARGE



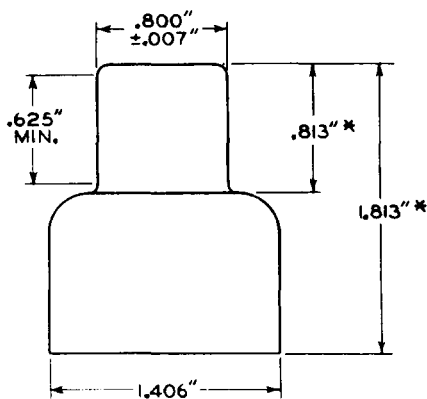
JETEC No. C1-15  
RCA No. 3917

### LARGE



JETEC No. C1-8  
RCA No. 3910

### SKIRTED LARGE



JETEC No. C1-9  
RCA No. 3905

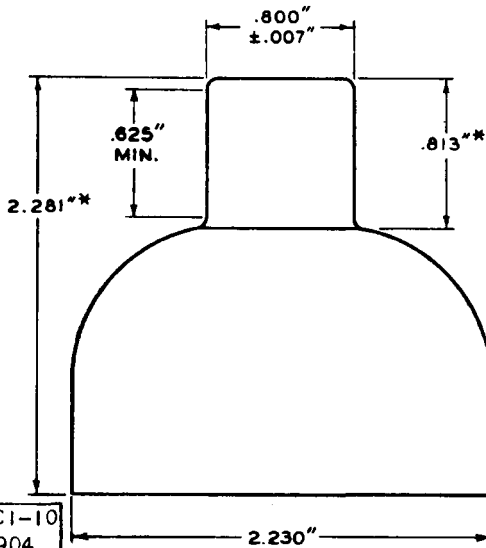
\* Add 0.060" for solder on finished tube.



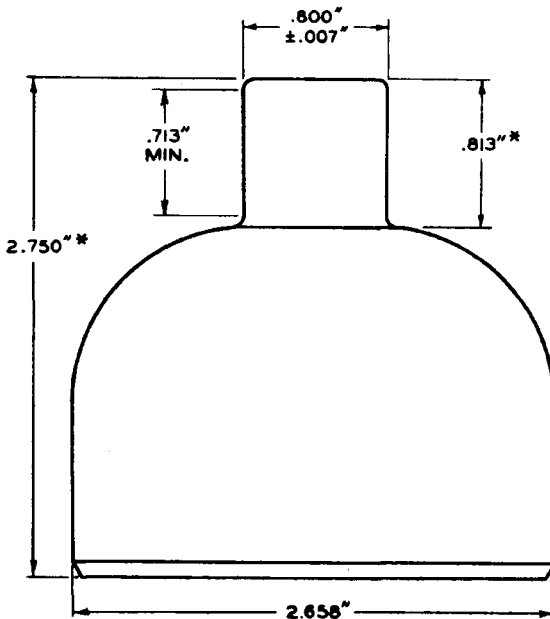
## BASES

1-TERMINAL TYPES (CAPS)

### SKIRTED LARGE



### SKIRTED LARGE



JETEC No. CI-30  
RCA No. 1902

\* Add 0.060\* for solder on finished tube.

MAY 3, 1954

TUBE DIVISION  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CAPS 3

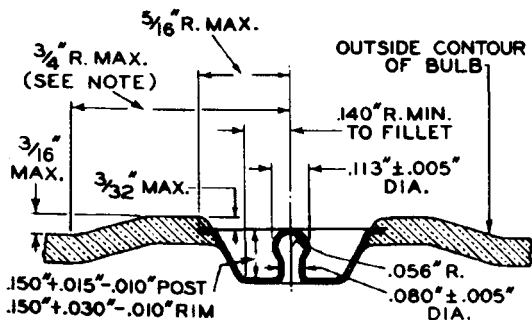


# BASES

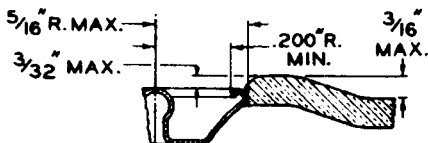
1-TERMINAL TYPES (CAPS)

## DETAILS OF RECESSED SMALL BALL CAP & BULB ASSEMBLY

JETEC No. J1-22



### ALTERNATE EDGE DESIGN



### VARIANT SEAL SHAPES



NOTE: PROTRUSION OF GLASS AROUND CAP ABOVE BULB CONTOUR IS LIMITED TO AREA BOUNDED BY CIRCLE CONCENTRIC WITH CAP AXIS AND HAVING RADIUS OF  $\frac{3}{4}$ \"

FOR ATTACHING OR DETACHING, THE CONNECTOR SHOULD REQUIRE NOT MORE THAN 8 POUNDS TOTAL FORCE PERPENDICULAR TO THE PLANE OF THE RIM OF THE CAP.

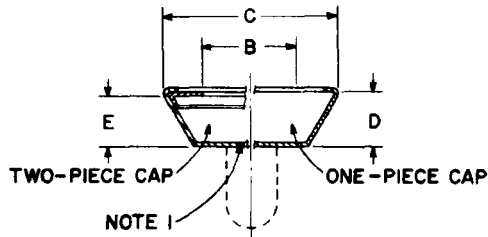
ANGLE BETWEEN PLANE OF THE RIM OF CAP AND PLANE TANGENT TO ORIGINAL CONTOUR OF BULB AT CENTER OF CAP WILL NOT BE MORE THAN  $10^\circ$ .

92CM-6535R4

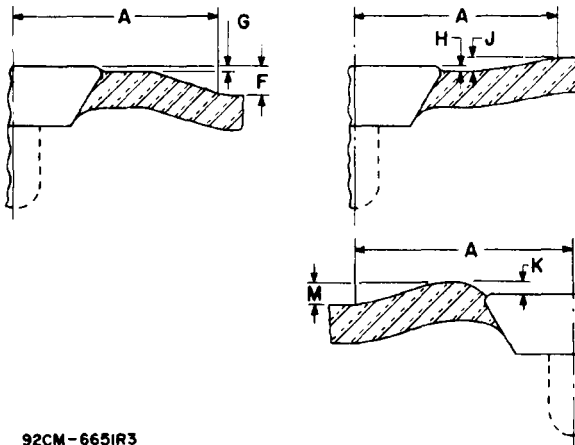
# Bases

## Caps (1-Terminal Types)

### Details of Recessed Small Cavity Cap & Bulb Assembly JEDEC No. J1-21



#### VARIANT SEAL SHAPES



92CM-665IR3

DIMEN- SION	INCHES			MILLIMETERS			NOTES
	Min	Nom	Max	Min	Nom	Max	
A	—	—	0.750	—	—	19.05	2
B	0.307	0.312	0.317	7.798	7.925	8.051	
C	—	—	0.570	—	—	14.47	
D	0.153	—	0.173	3.89	—	4.39	
E	0.136	—	0.166	3.46	—	4.21	
F	—	—	0.188	—	—	4.78	
G	—	—	0.031	—	—	0.78	
H	—	—	0.031	—	—	0.78	3
J	—	—	0.047	—	—	1.19	
K	—	—	0.094	—	—	2.38	
M	—	—	0.188	—	—	4.78	

See Notes on reverse side.



# Bases

## Caps (1-Terminal Types)

---

**Note 1:** Connector shall not extend beyond this line. Bottom contour optional.

**Note 2:** Protrusion or depression of glass around cap above bulb contour is limited to areas bounded by circle concentric with cap axis and having radii as shown above.

**Note 3:** When measured in a plane perpendicular to axis of contact cone.

**Note 4:** When attaching or detaching the connector the total force required should not exceed eight pounds as applied perpendicular to the plane of the rim of the cap.

**Note 5:** The angle between plane of the rim of the cap and plane tangent to original contour of bulb at center of cap shall not exceed  $10^{\circ}$ .

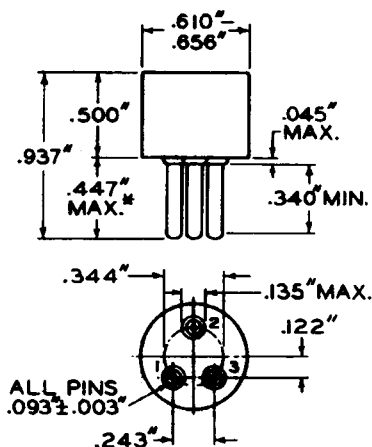




## BASES

### 3-PIN TYPES

**SMALL-SHELL  
PEEWEE 3-PIN**



JETEC No. A3-1  
RCA No. 3313

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA3-1) having thickness of 1/4" and three holes with diameters of 0.1030" - 0.1035" so located on a 0.3440"  $\pm$  0.0005" diameter circle that the distance along the chord between two adjacent hole centers is 0.2340"  $\pm$  0.0005" and the distance along the chord between the remaining pin and the two adjacent pins is 0.3175"  $\pm$  0.0005".

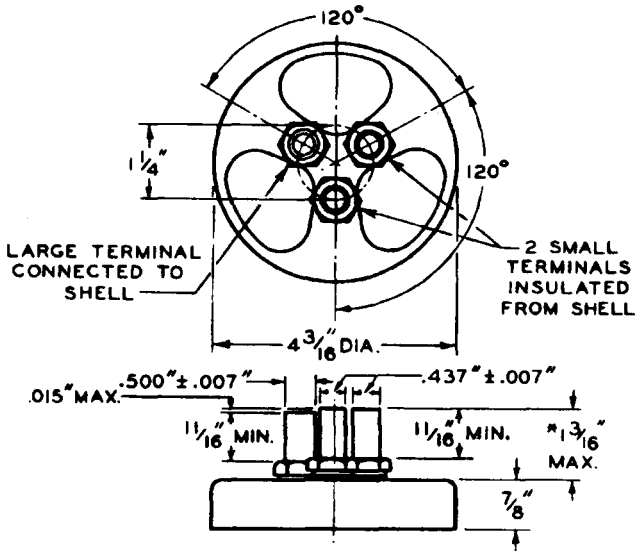
Pin fit in gauge is such that gauge together with supplementary weight totaling 2 pounds will not be lifted when pins are withdrawn.

\* Add 0.020" for solder on finished tube.



## BASES

### 3-TERMINAL TYPES



JETEC No. A3-80  
RCA No. 3232

\* Add  $\frac{1}{8}"$  for solder on finished tube.

NOV. 5, 1954

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

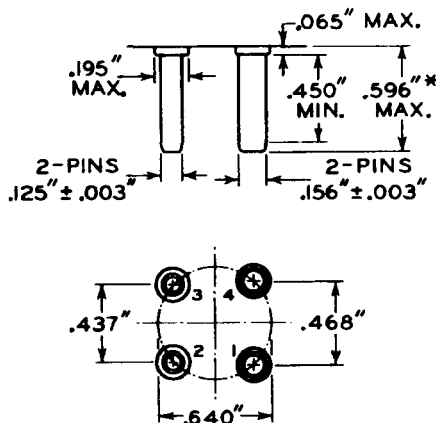
BASES 1



# BASES

## 4-PIN TYPES

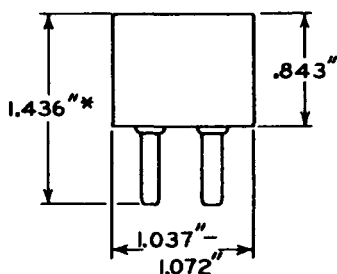
### "SMALL 4-PIN" PIN DIMENSIONS AND ORIENTATION



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA4-1) having thickness of 1/4" and four holes, two with diameters of  $0.1650'' \pm 0.0005''$  and two with diameters of  $0.1340'' \pm 0.0005''$  so located on a  $0.6400'' \pm 0.0005''$  diameter circle that the distance between the adjacent  $0.1650''$  diameter pins is  $0.4680'' \pm 0.0005''$  and the distance between the adjacent  $0.1340''$  diameter pins is  $0.4370'' \pm 0.0005''$ .

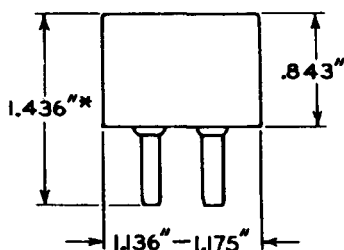
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

### DWARF-SHELL SMALL 4-PIN



JETEC No. A4-26  
RCA No. 4107

### SMALL-SHELL SMALL 4-PIN



JETEC No. A4-5  
RCA No. 4108

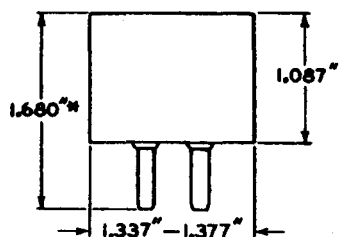
\* Add 0.030" for solder on finished tube.



# BASES

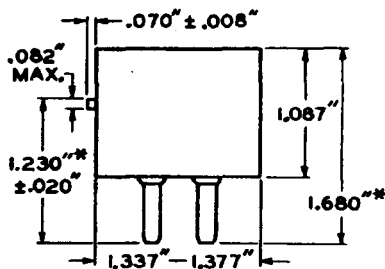
## 4-PIN TYPES

### MEDIUM-SHELL SMALL 4-PIN



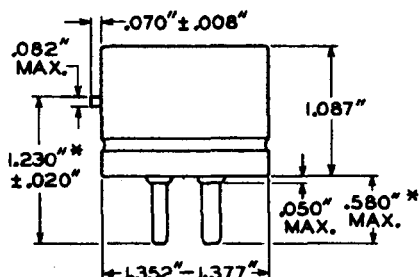
JETEC No. A4-9  
RCA No. 4106

### MEDIUM-SHELL SMALL 4-PIN WITH BAYONET



JETEC No. A4-10  
RCA No. 4102

### MEDIUM-METAL-SHELL SMALL 4-PIN WITH BAYONET



JETEC No. A4-89  
RCA No. 4102-M1

For other dimensions, see first page  
of the "Small 4-Pin" series.

\* Add 0.030" for solder on finished tube.

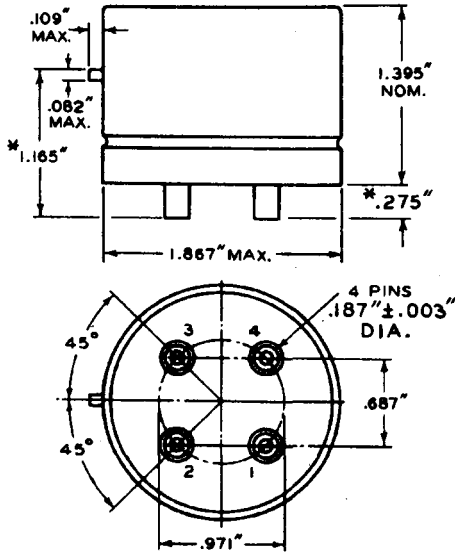


# BASES

4-PIN TYPES

With Bottom View

## JUMBO 4-PIN



No. 1839

\* On finished tube, add .060" for solder.

Dec. 1, 1942

RCA RADIODRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

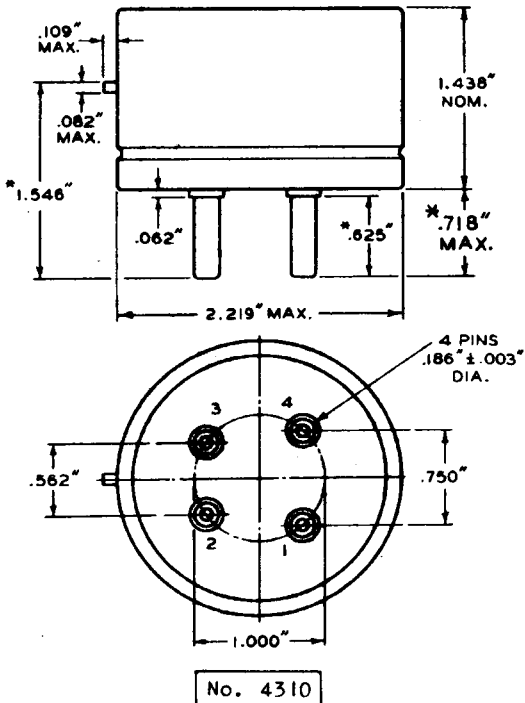
BASES



## BASES

4-PIN TYPES  
With Bottom View

### SUPER-JUMBO 4-PIN



\* On finished tube, add .030" for solder.

Dec. 1, 1942

RCA RADOTRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

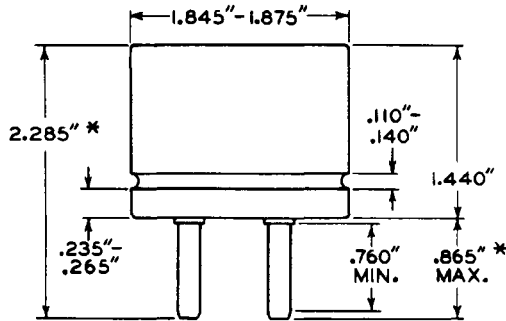
BASES



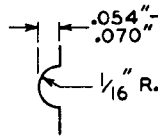
## BASES

4-PIN TYPES

### MEDIUM-METAL-SHELL SUPER-JUMBO 4-PIN



#### Detail of Groove



JETEC No. A4-81

*For other dimensions, see first page  
of the "Super-Jumbo" series.*

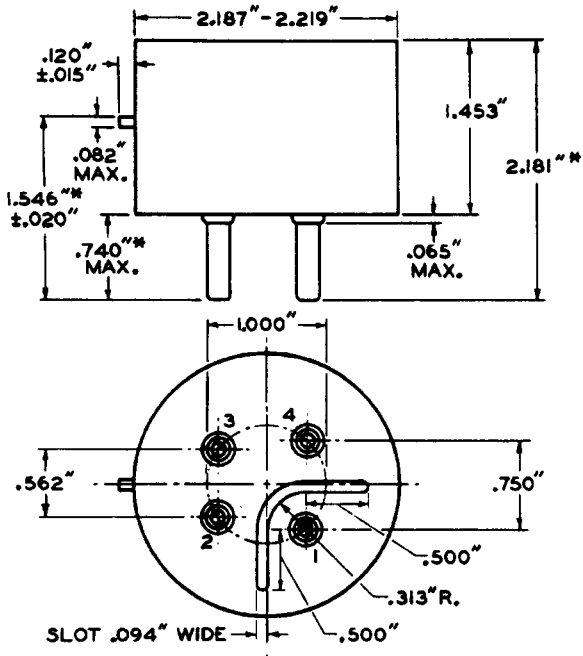
\* Add 0.060" for solder on finished tube.



## BASES

### 4-PIN TYPES

#### LARGE - SHELL SUPER-JUMBO 4 - PIN WITH BAYONET



JETEC No. A4-88

RCA No. 3982

*For other dimensions, see first page  
of the "Super-Jumbo" series.*

\* Add 0.060" for solder on finished tube.

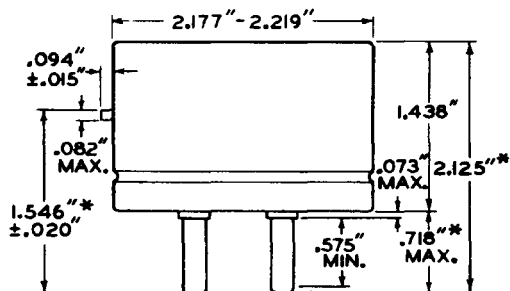




## BASES

### 4-PIN TYPES

#### LARGE - METAL - SHELL SUPER-JUMBO 4-PIN WITH BAYONET



JETEC No. A4-18  
RCA No. 4310

*For other dimensions, see first page  
of the "Super-Jumbo" series.*

\* Add 0.060" for solder on finished tube.

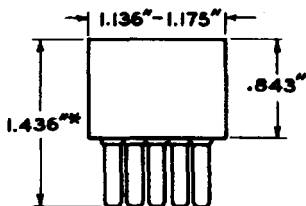


## 5-PIN TYPES

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA5-1) having thickness of 1/4" and five holes with diameters of 0.1360"  $\pm$  0.0005" so located on a 0.7500"  $\pm$  0.0005" diameter circle that the distance between centers of the four adjacent holes is 0.3750"  $\pm$  0.0005" and the distance between the center of the remaining hole and its adjacent hole centers is 0.5300"  $\pm$  0.0005".

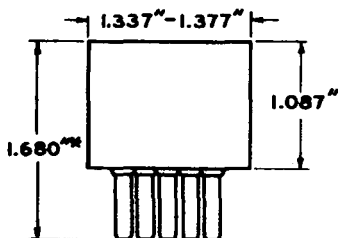
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

SMALL-SHELL  
SMALL 5-PIN



JETEC No. A5-6  
RCA No. 5108

**MEDIUM-SHELL  
SMALL 5-PIN**



JETEC No. A5-11  
RCA No. 5106

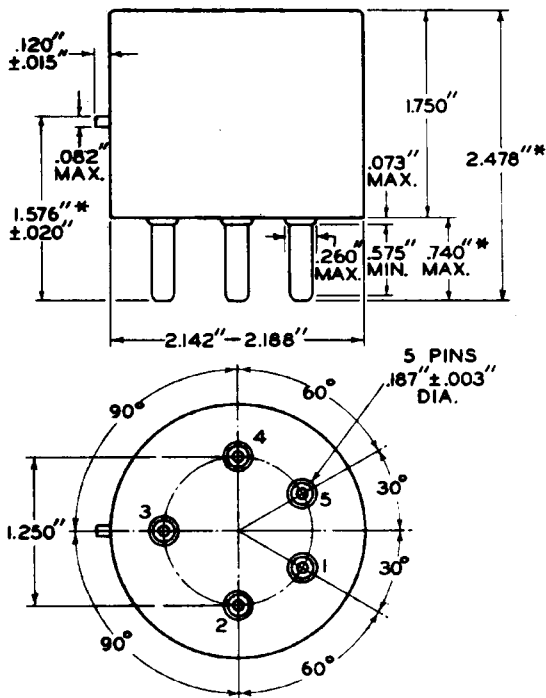
\* Add 0.030" for solder on finished tube.



# BASES

5-PIN TYPES

## MEDIUM-SHELL GIANT 5-PIN WITH BAYONET



JETEC No. A5-19  
RCA No. 5325

## SPECIAL METAL-SHELL GIANT 5-PIN

*See Tube Types 4-125A/4D21 and 4-250A/5D22*

## SPECIAL METAL-SHELL SUPER-GIANT 5-PIN

*See Tube Type 4-1000A*

\* Add 0.030" for solder on finished tube.



## **BASES**

### **5-PIN TYPES**

#### **SMALL-SHELL DUODECAL 5-PIN**

*For details of this base, see corresponding  
DUODECAL 12-PIN type*

**DWARF-SHELL OCTAL 5-PIN**

**SMALL-SHELL OCTAL 5-PIN**

**SMALL-WAFER OCTAL 5-PIN**

**SMALL-WAFER OCTAL 5-PIN**

**WITH SLEEVE**

**INTERMEDIATE-SHELL OCTAL 5-PIN**

**SHORT INTERMEDIATE-SHELL OCTAL 5-PIN**

**SHORT INTERMEDIATE-SHELL OCTAL 5-PIN**

**WITH EXTERNAL BARRIERS**

**MEDIUM-SHELL OCTAL 5-PIN**

**SHORT JUMBO-SHELL OCTAL 5-PIN**

*For details of above bases, see corresponding  
OCTAL 8-PIN type*

#### **SMALL RADIAL 5-PIN**

*See OUTLINES--Glass Types*

**MEDIUM-MOLDED-FLARE**

**SEPTAR 5-PIN**

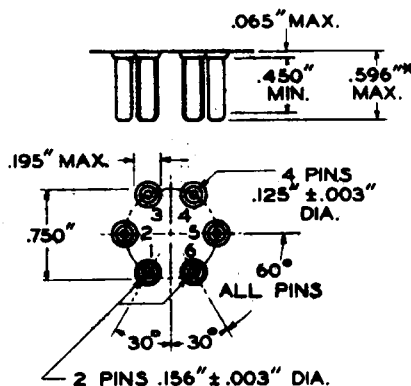
*See Tube Type 4-65A*



# BASES

## 6-PIN TYPES

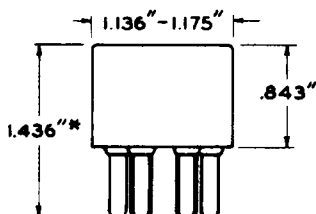
### "SMALL 6-PIN" PIN DIMENSIONS AND ORIENTATION



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA6-1) having thickness of  $1/4$ " and six holes, two adjacent with diameters of  $0.1650" \pm 0.0005"$  and four with diameters of  $0.1360" \pm 0.0005"$  so located on a  $0.7500" \pm 0.0005"$  diameter circle that the distance between any two adjacent hole centers is  $0.3750" \pm 0.0005"$ .

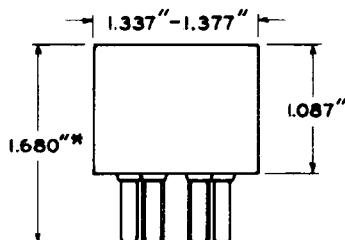
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

#### SMALL-SHELL SMALL 6-PIN



JETEC No. A6-7  
RCA No. 6108

#### MEDIUM-SHELL SMALL 6-PIN



JETEC No. A6-12  
RCA No. 6106

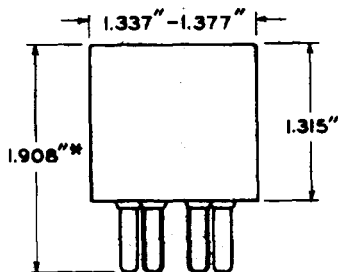
\* Add 0.030" for solder on finished tube.



## BASES

### 6-PIN TYPES

#### LONG MEDIUM-SHELL SMALL 6-PIN



RCA No. 6105

*For other dimensions, see first page  
of the "Small 6-Pin" series.*

#### SMALL-SHELL DUODECAL 6-PIN

*For details of this base, see corresponding  
DUODECAL 12-PIN type*

SMALL-SHELL OCTAL 6-PIN  
INTERMEDIATE-SHELL OCTAL 6-PIN  
SHORT INTERMEDIATE-SHELL OCTAL 6-PIN  
SHORT INTERMEDIATE-SHELL OCTAL 6-PIN  
WITH EXTERNAL BARRIERS  
MEDIUM-SHELL OCTAL 6-PIN  
SHORT JUMBO-SHELL OCTAL 6-PIN  
SMALL-WAFER OCTAL 6-PIN  
SMALL-WAFER OCTAL 6-PIN  
WITH SLEEVE

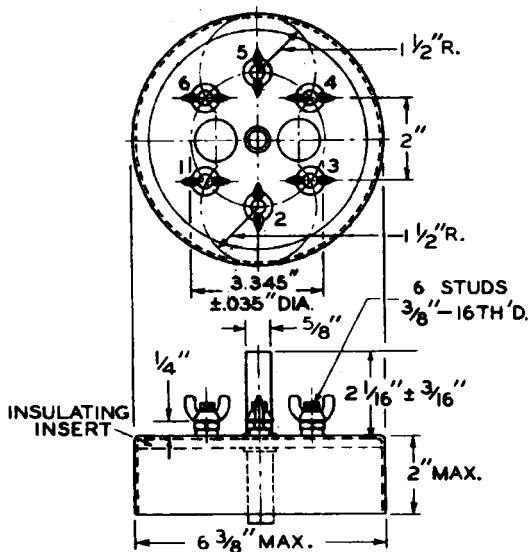
*For details of above bases, see corresponding  
OCTAL-8 PIN type*

\* Add 0.030" for solder on finished tube.



# BASES

## 6-TERMINAL TYPES



SPACE FOR CONNECTOR  
BETWEEN WING NUT AND  
LOCK NUT IS  $\frac{3}{16}" \text{ MAX.}$

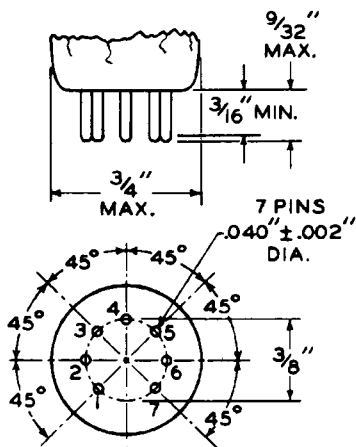
JETEC No. FO-6

RCA No. 6628

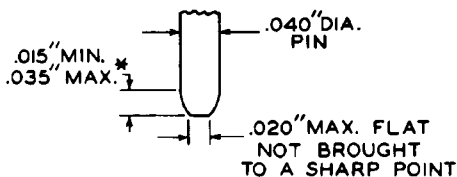
**RCA**  
**BASES**

7-PIN TYPES

**SMALL-BUTTON  
MINIATURE 7-PIN**



**Miniature Base Pin Contour**



JETEC No. E7-1

Base-pin positions are held to tolerances such that entire length of pins will without undue force pass into and disengage from flat-plate gauge (part of gauge JETEC No. GE7-1) having thickness of 1/4" and eight holes with diameters of  $0.0520" \pm 0.0005"$  so located on a  $0.3750" \pm 0.0005"$  diameter circle that the distance along the chord between any two adjacent hole centers is  $0.1434" \pm 0.0005"$ .

The design of the socket should be such that circuit wiring can not impress lateral strains through the socket contacts on the base pins. The point of bearing of the contacts on the base pins should not be closer than 1/8" from the bottom of the seated tube.

\* This dimension around the periphery of any individual pin may vary within the limits shown.

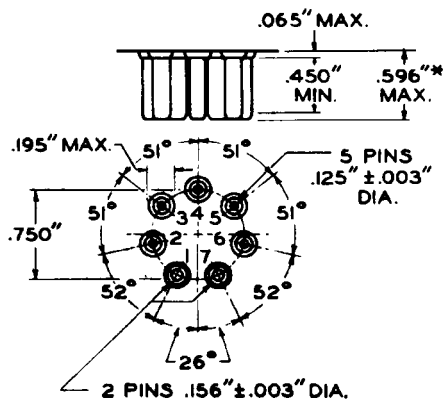




## BASES

### 7-PIN TYPES

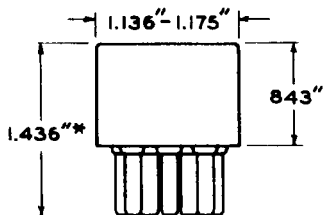
#### "SMALL 7-PIN" PIN DIMENSIONS AND ORIENTATION



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA7-1) having thickness of  $1/4$ " and seven holes, two adjacent with diameters of  $0.1650" \pm 0.0005"$  and five with diameters of  $0.1360" \pm 0.0005"$  so located on a  $0.7500" \pm 0.0005"$  diameter circle that the distance between centers of the adjacent  $0.1650"$  diameter holes is  $0.3288" \pm 0.0005"$  and the distance between centers of the adjacent  $0.1360"$  diameter holes is  $0.3229" \pm 0.0005"$ .

Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

#### SMALL-SHELL SMALL 7-PIN



JETEC No. A7-8

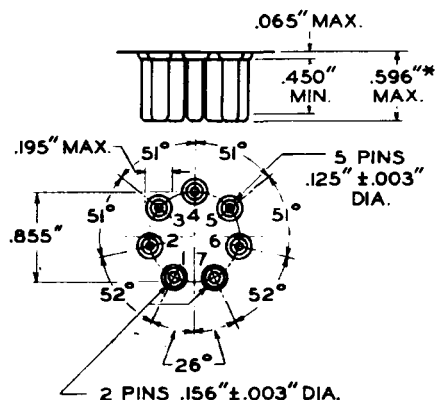
RCA No. 7108

\* Add 0.030" for solder on finished tube.

# RCA BASES

## 7-PIN TYPES

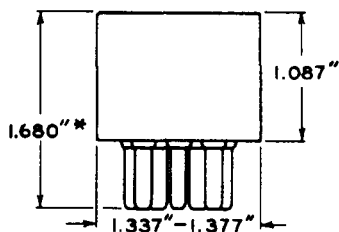
### "MEDIUM 7-PIN" PIN DIMENSIONS AND ORIENTATION



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA7-2) having thickness of 1/4" and seven holes, two adjacent with diameters of  $0.1650" \pm 0.0005"$  and five with diameters of  $0.1360" \pm 0.0005"$  so located on a  $0.8550" \pm 0.0005"$  diameter circle that the distance between centers of the adjacent  $0.1650"$  diameter holes is  $0.3748" \pm 0.0005"$  and the distance between centers of the adjacent  $0.1360"$  diameter holes is  $0.3681" \pm 0.0005"$ .

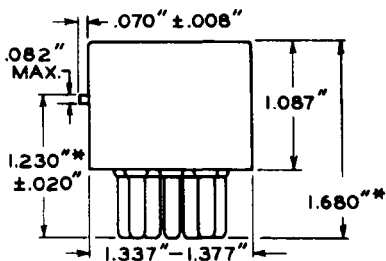
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

#### MEDIUM-SHELL MEDIUM 7-PIN



JETEC No. A7-13  
RCA No. 7306

#### MEDIUM-SHELL MEDIUM 7-PIN WITH BAYONET



JETEC No. A7-14  
RCA No. 7302

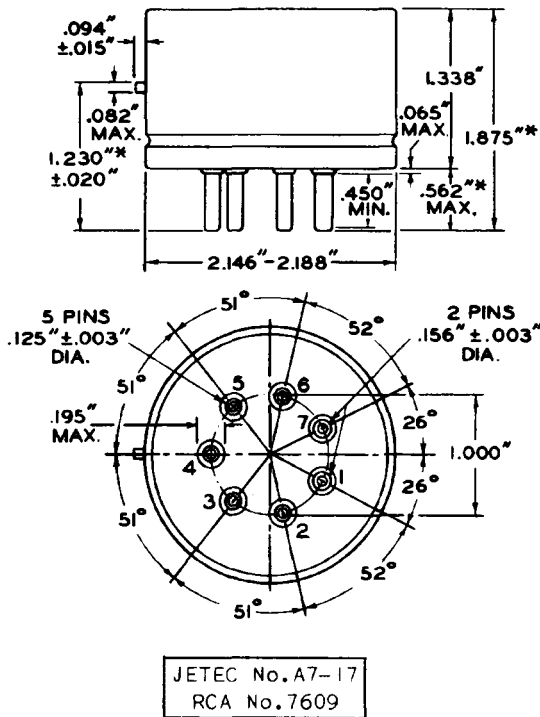
\* Add 0.030" for solder on finished tube.



## BASES

### 7-PIN TYPES

#### MEDIUM-METAL-SHELL GIANT 7-PIN WITH BAYONET



#### VENTILATED MEDIUM-METAL-SHELL GIANT 7-PIN

See Tube Type 4E27A/5-125B

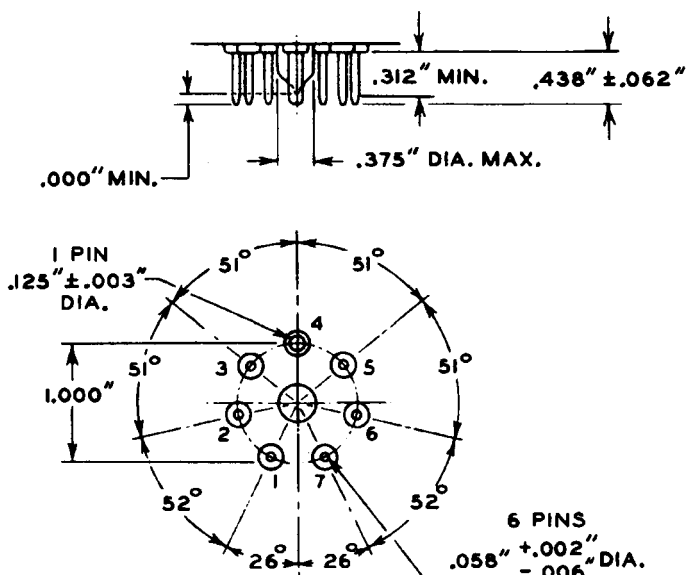
\* Add 0.060" for solder on finished tube.



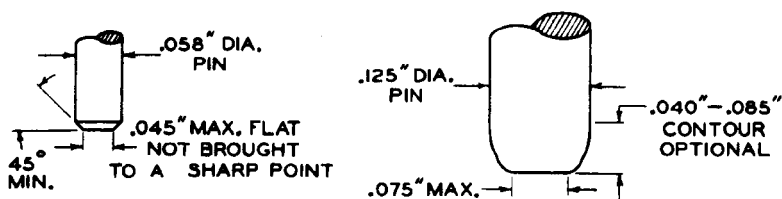
# BASES

## 7-PIN TYPES

### "SEPTAR" PIN DIMENSIONS AND ORIENTATION



### Septar Base Pin Contour



Base-pin positions are held to tolerances such that entire length of pins will without undue force pass into and disengage from flat-plate gauge having thickness of  $3/8$ " and seven holes, one with diameter of  $0.1450" \pm 0.0005$ " and six with diameters of  $0.0800" \pm 0.0005$ " located on a  $1.0000" \pm 0.0005$ " diameter circle at specified angles with a tolerance of  $\pm 1'$  for each angle. Gauge is also provided with a hole  $0.500" \pm 0.010$ " concentric with pin circle.

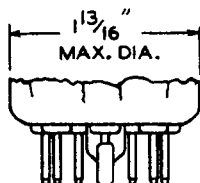
It is essential that the socket shall be constructed with floating-contact clips.



## BASES

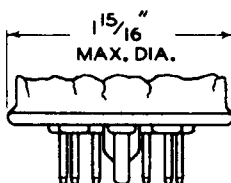
7-PIN TYPES

### MEDIUM-BUTTON SEPTAR 7-PIN



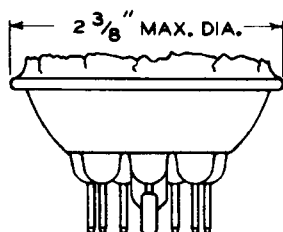
JETEC No. E7-20  
RCA No. FSB6014

### SMALL-WAFER SEPTAR 7-PIN



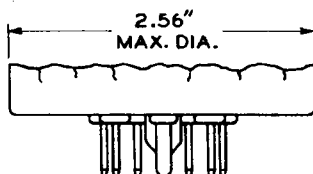
JETEC No. E7-21  
RCA No. FSB712

### MEDIUM MOLDED-FLARE SEPTAR 7-PIN



JETEC No. E7-2  
RCA No. FSB603

### JUMBO-BUTTON SEPTAR 7-PIN



JETEC No. E7-46  
RCA No. FSB6038

*For other dimensions of above bases, see first  
page of the "Septar" series*



## **BASES**

### **7-PIN TYPES**

#### **SMALL-SHELL DUODECAL 7-PIN**

*For details of this base, see corresponding  
SMALL-SHELL DUODECAL 12-PIN type*

#### **SMALL-BUTTON EIGHTAR 7-PIN**

*For details of this base, see corresponding  
SMALL-BUTTON EIGHTAR 8-PIN type*

#### **SMALL-SHELL OCTAL 7-PIN**

**SHORT INTERMEDIATE-SHELL OCTAL 7-PIN**

**SHORT INTERMEDIATE-SHELL OCTAL 7-PIN  
WITH EXTERNAL BARRIERS**

**INTERMEDIATE-SHELL OCTAL 7-PIN**

**SHORT MEDIUM-SHELL OCTAL 7-PIN  
WITH EXTERNAL BARRIERS, STYLES A AND B**

**MEDIUM-SHELL OCTAL 7-PIN**

**SHORT JUMBO-SHELL OCTAL 7-PIN  
WITH EXTERNAL BARRIERS**

**SMALL-WAFER OCTAL 7-PIN**

**SMALL-WAFER OCTAL 7-PIN  
WITH SLEEVE**

*For details of above bases, see corresponding  
OCTAL 8-PIN type*

#### **SMALL RADIAL 7-PIN**

*See OUTLINES--Glass Tubes*