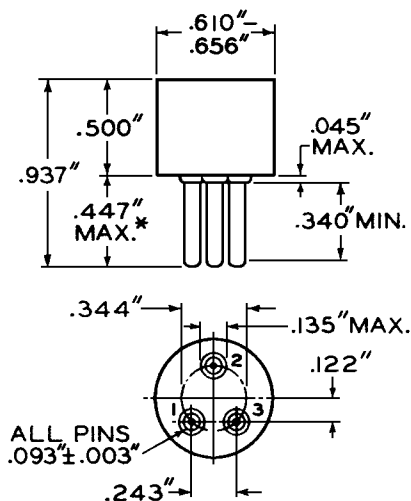




BASES

3-PIN TYPES

SMALL-SHELL PEEWEE 3-PIN



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".

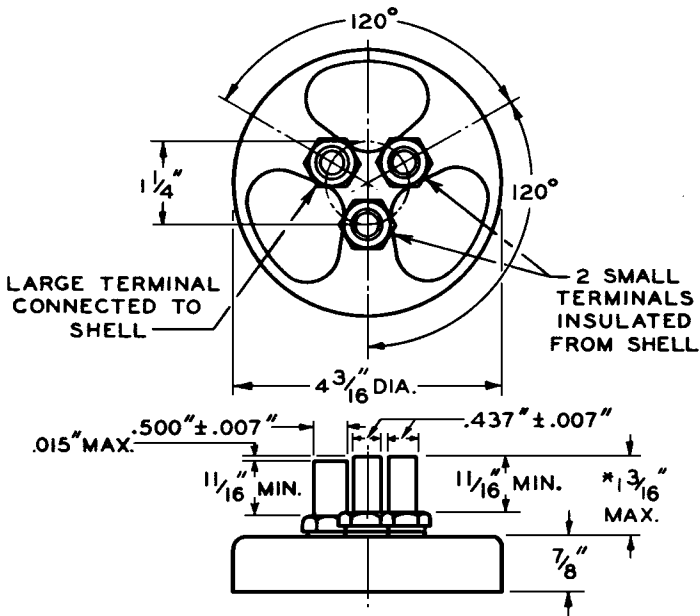
Pin fit in gauge is such that gauge together with supplementary weight totaling 2 pounds will not be lifted when pins are withdrawn.

* Add 0.020" for solder on finished tube.



BASES

3-TERMINAL TYPES



JETEC No. A3-80
RCA No. 3232

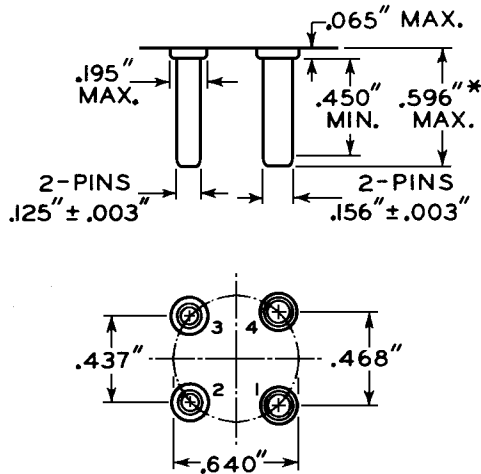
* Add $\frac{1}{8}$ " for solder on finished tube.



BASES

4-PIN TYPES

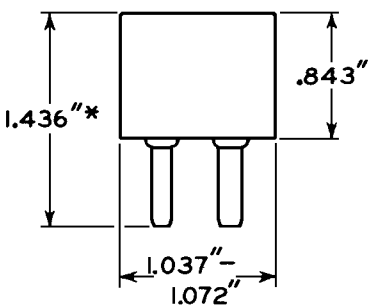
"SMALL 4-PIN" PIN DIMENSIONS AND ORIENTATION



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 $0.4370" \pm 0.0005"$.

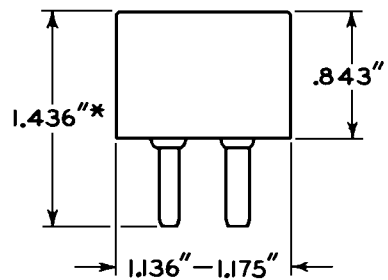
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

DWARF-SHELL SMALL 4-PIN



JETEC No. A4-26
RCA No. 4107

SMALL-SHELL SMALL 4-PIN



JETEC No. A4-5
RCA No. 4108

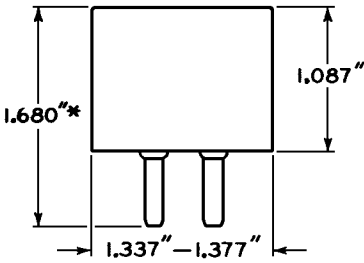
* Add 0.030" for solder on finished tube.



BASES

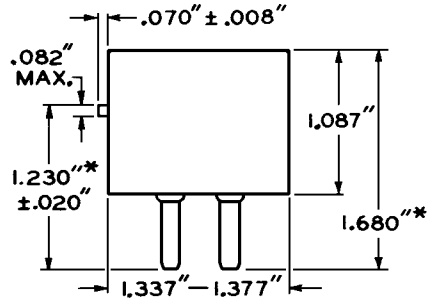
4-PIN TYPES

MEDIUM-SHELL SMALL 4-PIN



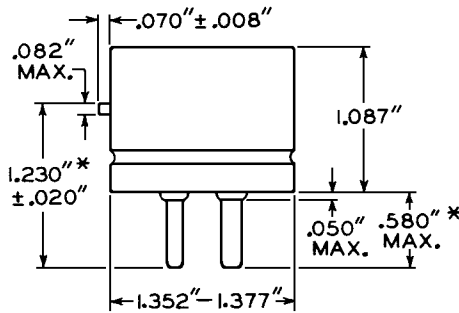
JETEC No. A4-9
RCA No. 4106

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.*

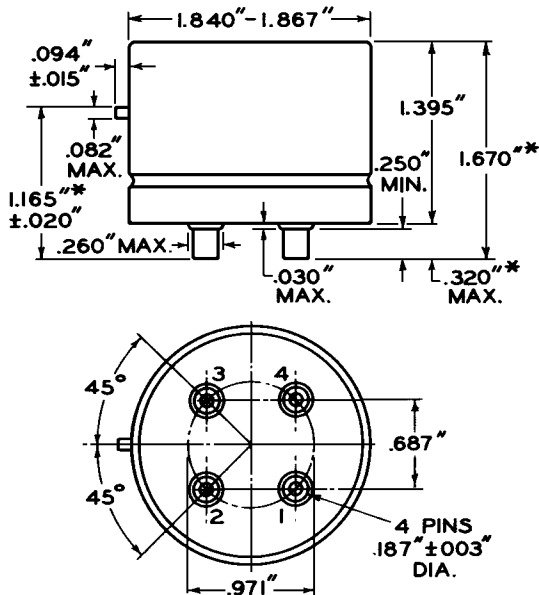
* Add 0.030" for solder on finished tube.



BASES

4-PIN TYPES

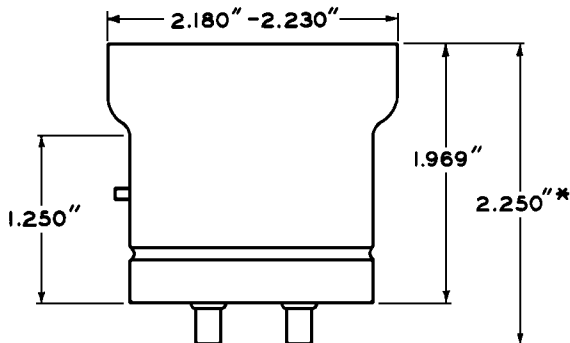
MEDIUM-METAL-SHELL JUMBO 4-PIN WITH BAYONET



JETEC No. A4-29

RCA No. 1839B

SKIRTED MEDIUM-METAL-SHELL JUMBO 4-PIN WITH BAYONET



JETEC No. A4-69

RCA No. 4260A

Other dimensions are same as Base JETEC No. A4-29 above.

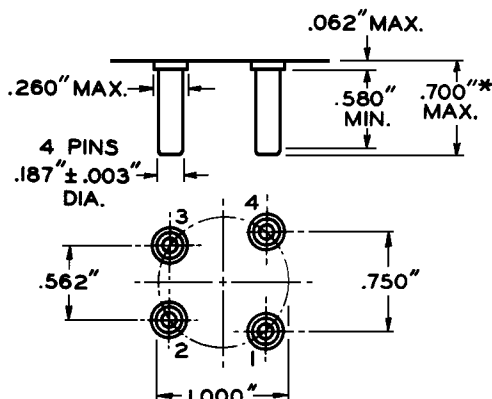
* Add 0.060" for solder on finished tube.



BASES

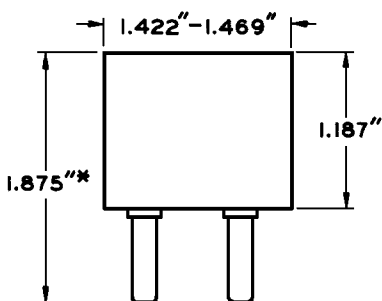
4-PIN TYPES

SUPER-JUMBO 4-PIN PIN DIMENSIONS AND ORIENTATION



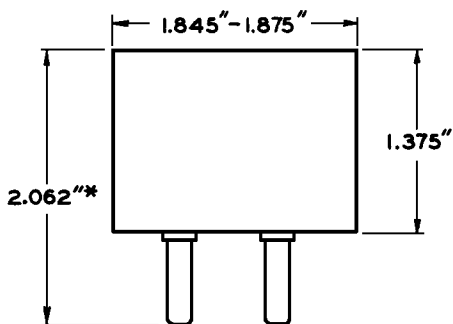
Base-pin positions are held to tolerances such that pin centers may deviate a maximum distance of 0.010" from their true geometric position.

SMALL - SHELL SUPER-JUMBO 4-PIN



JETEC No. A4-15
RCA No. 411

MEDIUM - SHELL SUPER-JUMBO 4-PIN



JETEC No. A4-16
RCA No. 412

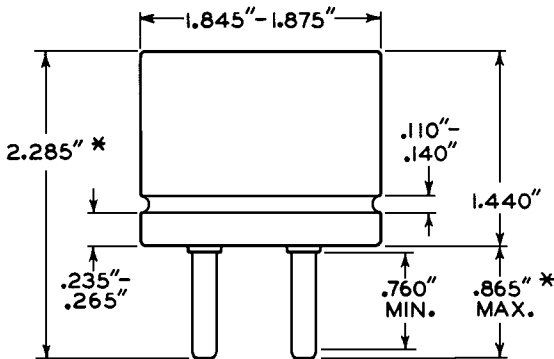
* Add 0.060" for solder on finished tube.



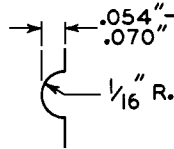
BASES

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.*

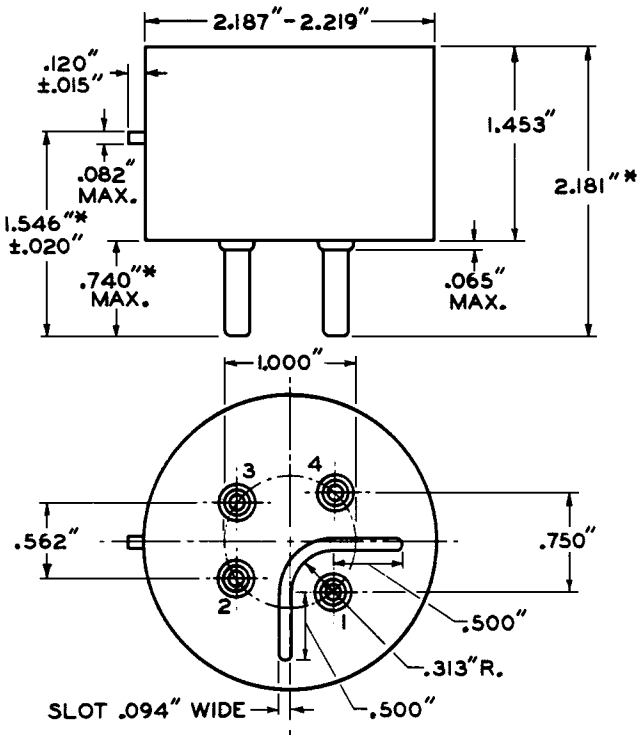
* Add 0.060" for solder on finished tube.



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.*

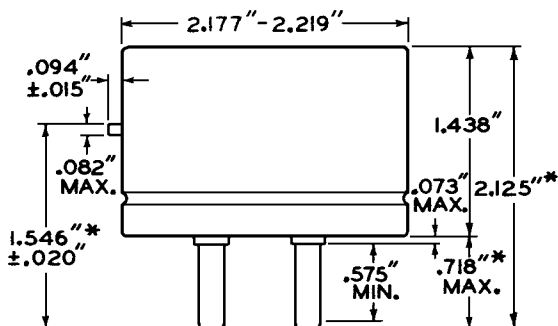
* Add 0.060" for solder on finished tube.



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.*

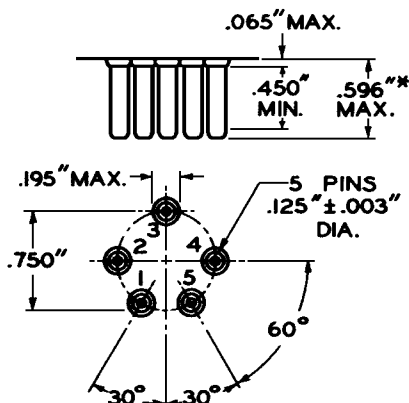
* Add 0.060" for solder on finished tube.



BASES

5-PIN TYPES

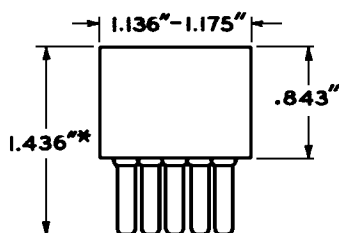
"SMALL 5-PIN" PIN DIMENSIONS AND ORIENTATION



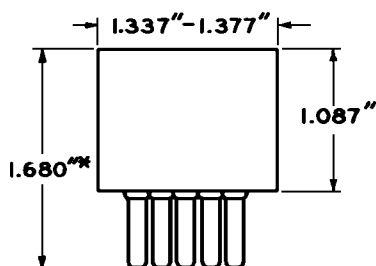
Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GA5-1) having thickness of $1/4''$ and five holes with diameters of $0.1360'' \pm 0.0005''$ so located on a $0.7500'' \pm 0.0005''$ diameter circle that the distance between centers of the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



MEDIUM-SHELL SMALL 5-PIN



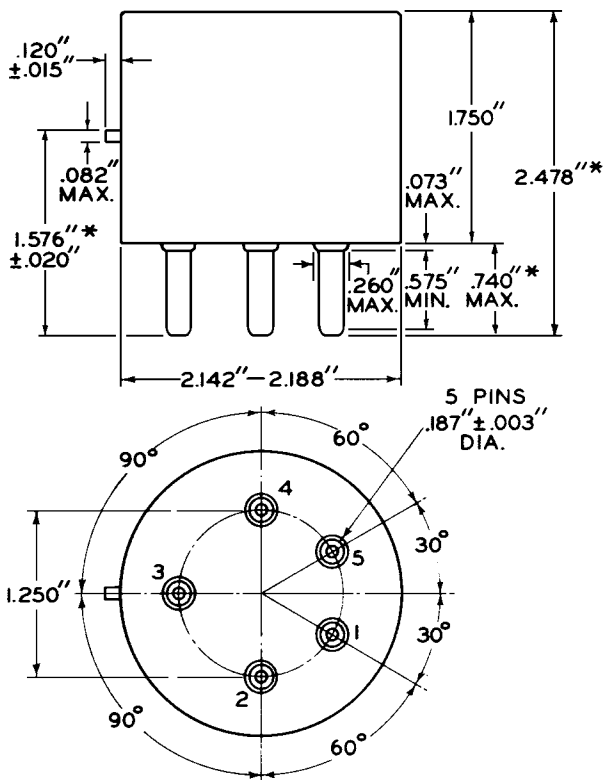
* Add $0.030''$ for solder on finished tube.



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

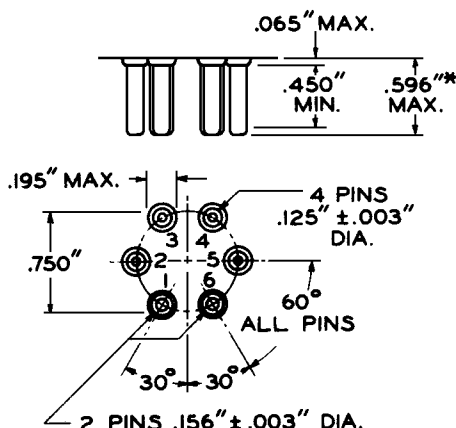
See Tube Type 4-65A



6-PIN TYPES

"SMALL 6-PIN"

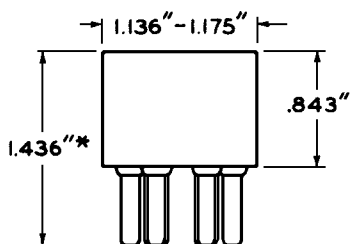
PIN DIMENSIONS AND ORIENTATION



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 $0.3750" \pm 0.0005"$.

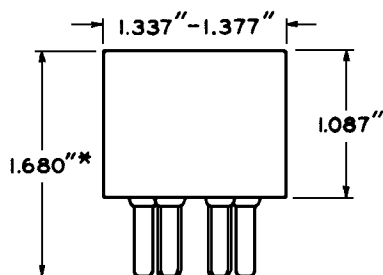
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

SMALL-SHELL
SMALL 6-PIN



JETEC No. A6-7
RCA No. 6108

**MEDIUM-SHELL
SMALL 6-PIN**



JETEC No.A6-12
RCA No.6106

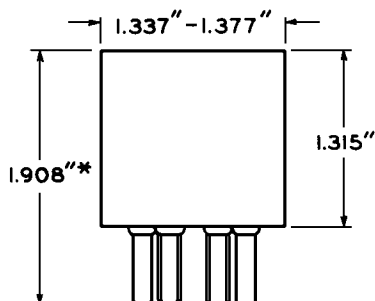
* Add 0.030" for solder on finished tube.



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.



1 1/2" R.

2"

1 1/2" R.

3.345" ± 0.035" DIA.

5/8"

2 1/16" ± 3/16"

1/4"

INSULATING INSERT

2" MAX.

6 3/8" MAX.

6 STUDS 3/8" - 16TH'D.

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

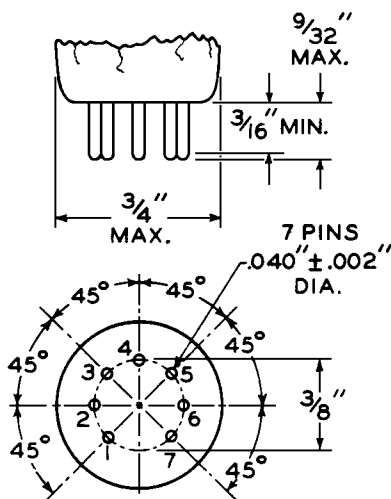
RCA No. 6628



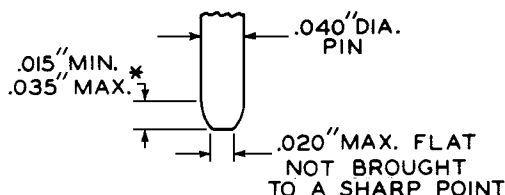
BASES

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.

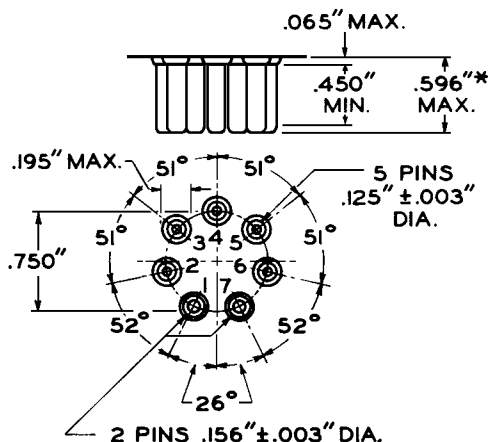
* This dimension around the periphery of any individual pin may vary within the limits shown.



BASES

7-PIN TYPES

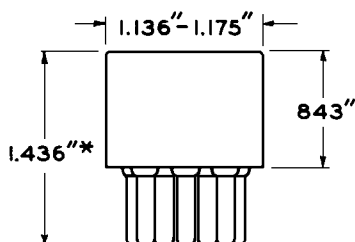
"SMALL 7-PIN" PIN DIMENSIONS AND ORIENTATION



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

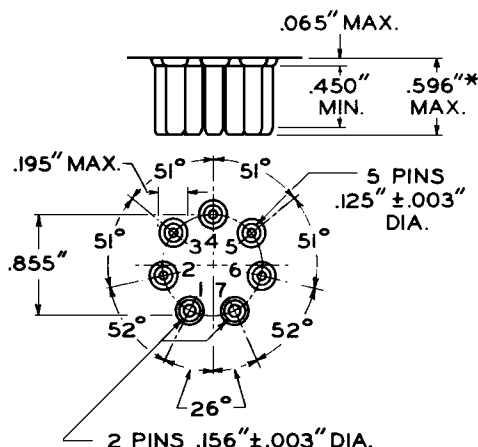
* Add 0.030" for solder on finished tube.



BASES

7-PIN TYPES

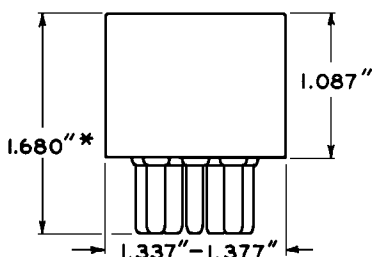
"MEDIUM 7-PIN" PIN DIMENSIONS AND ORIENTATION



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 $0.3681" \pm 0.0005"$.

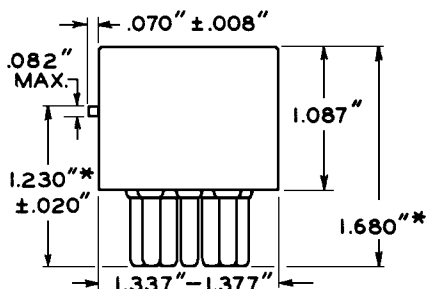
Pin fit in gauge is such that gauge together with supplementary weight totaling 4 pounds will not be lifted when pins are withdrawn.

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

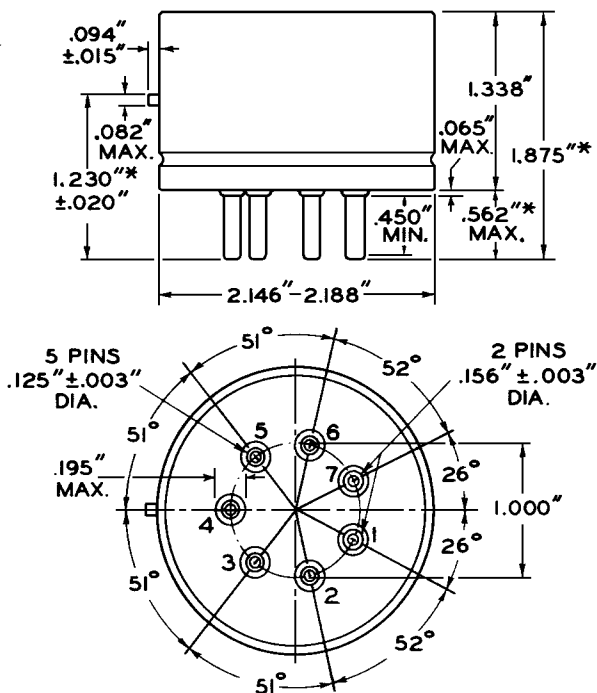
* Add 0.030" for solder on finished tube.



BASES

7-PIN TYPES

MEDIUM-METAL-SHELL GIANT 7-PIN WITH BAYONET



JETEC No. A7-17
RCA No. 7609

VENTILATED MEDIUM-METAL-SHELL GIANT 7-PIN

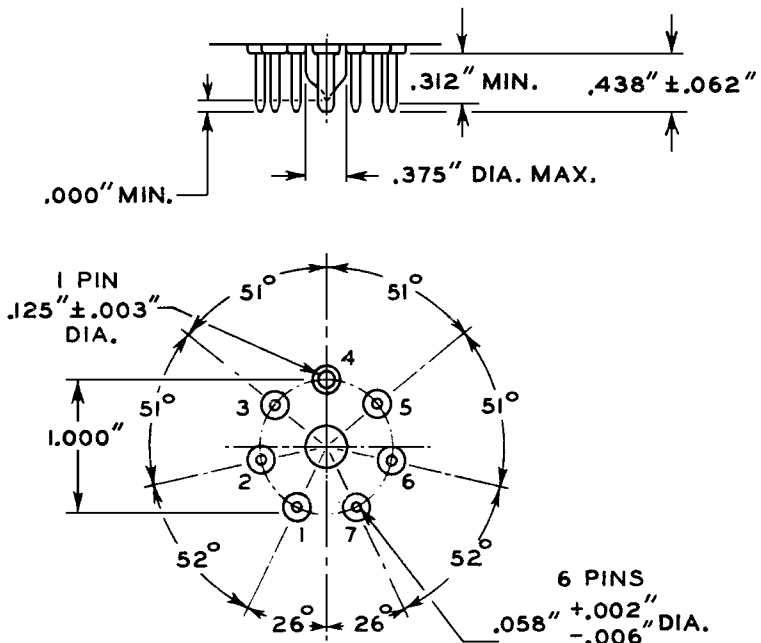
See Tube Type 4E27A/5-125B

* Add 0.060" for solder on finished tube.

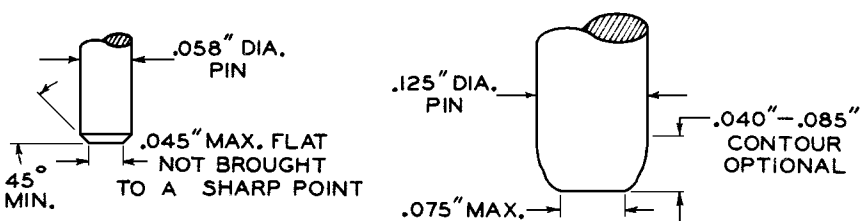
BASES

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 $\pm 5'$ for each angle. Gauge is also provided with a hole 0.500" $\pm$ 0.010" concentric with pin circle.

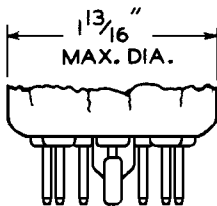
It is essential that the socket shall be constructed with floating-contact clips.



BASES

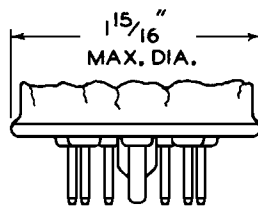
7-PIN TYPES

MEDIUM-BUTTON SEPTAR 7-PIN



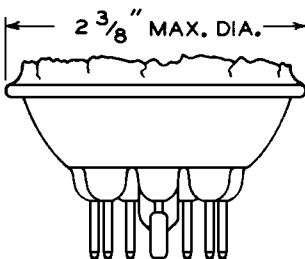
JETEC No. E7-20
RCA No. FSB6014

SMALL-WAFER SEPTAR 7-PIN



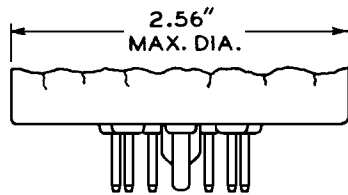
JETEC No. E7-21
RCA No. FSB712

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

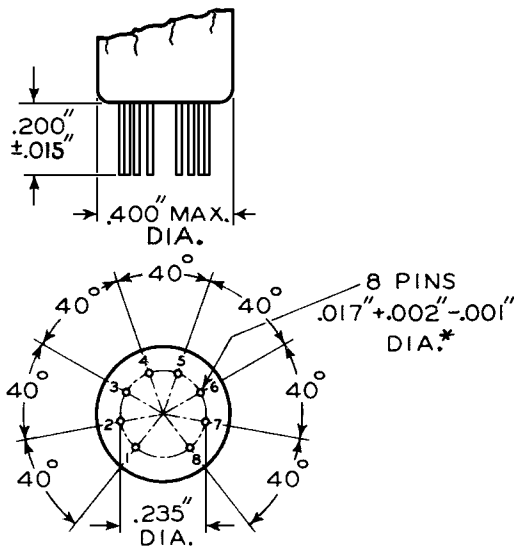
See OUTLINES--Glass Tubes



BASES

8-PIN TYPES

SMALL-BUTTON SUB-MINAR 8-PIN



JETEC No. E8-9

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 JETEC No. GE8-1. This gauge contains a flat-plate section having thickness of $13/64$ " and nine holes with diameters of $0.0240" \pm 0.0005"$ so located on a $0.2350" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.0804" \pm 0.0005"$.

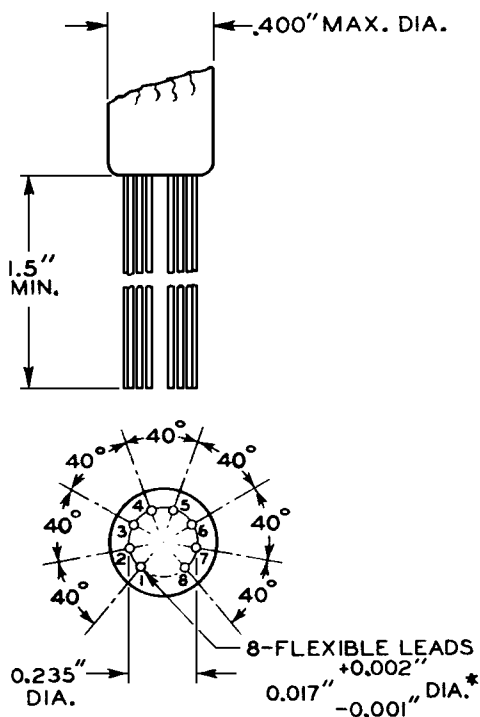
The design of the socket should be such that circuit wiring can not impress lateral strains through the socket contacts on the base pins. The point of bearing of the contacts on the base pins should not be closer than $0.050"$ from the bottom of the seated tube.

* The specified pin diameter applies only in the zone between $0.050"$ from the base seat and the end of the pin.



BASES

8-LEAD TYPES



JETEC No. E8-10

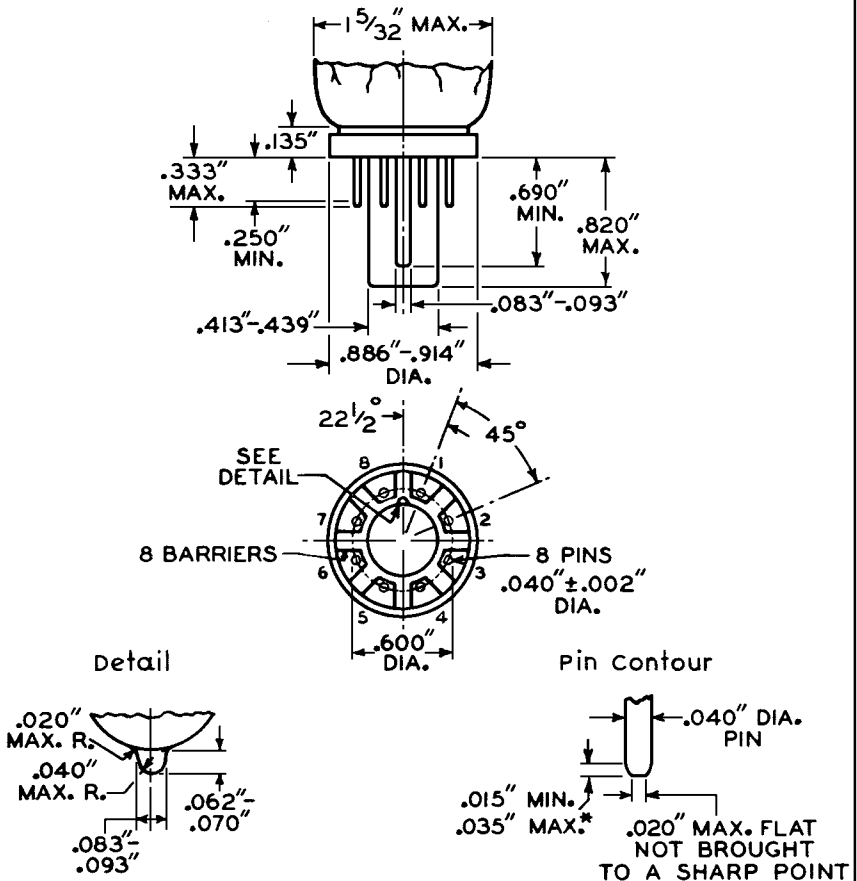
* The specified lead diameter applies only in the zone between 0.050" and 0.250" from the base seat. Between 0.250" and 1.500", a maximum diameter of 0.021" is held. Outside of these zones, the lead diameter is not controlled.



BASES

8-PIN TYPES

SMALL-BUTTON EIGHTAR



No. of Pins	Pins	JETEC No.	RCA No. #
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-181	80000
7-Pin ■	2, 3, 4, 5, 6, 7, 8	B7-182	80000
7-Pin ▲	1, 2, 3, 4, 6, 7, 8	B7-183	80000

Base-pin positions are held to tolerances such that the base will fit a flat-plate gauge having a thickness of $3/8$ " and eight equally spaced holes of $0.0550" \pm 0.0005$ " diameter located on a $0.6000" \pm 0.0005$ " diameter circle. The gauge is also provided with a center hole to provide 0.010 " diametric clearance for the lug and key. Pin fit in the gauge shall be such that the entire length of pins will, without undue force, enter into and disengage from the gauge.

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

This number applies to wafer only.

■ Arrangement 1.

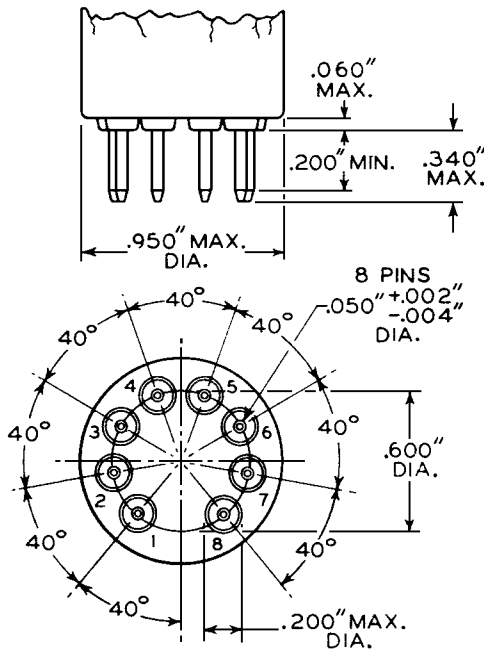
▲ Arrangement 2.



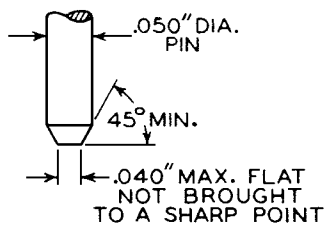
BASES

8-PIN TYPES

SMALL-BUTTON NEODITETRAR 8-PIN



Neoditetrar-Base Pin Contour



JETEC No. E8-49
RCA No. FSB6006#

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 1/4" and nine holes with diameters of $0.0700" \pm 0.0005"$ so located on a $0.6000" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.2052" \pm 0.0005"$.

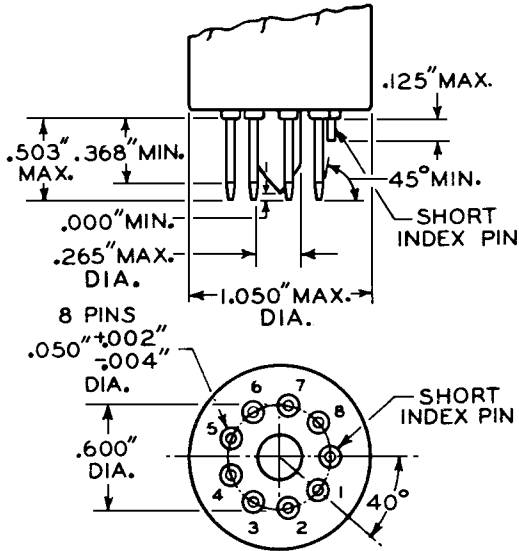
This number applies to stem only.



BASES

8-PIN TYPES

SMALL-BUTTON DITETRAR 8-PIN



JETEC No. E8-11
 RCA No. { FSB675#
 { FSB6015#

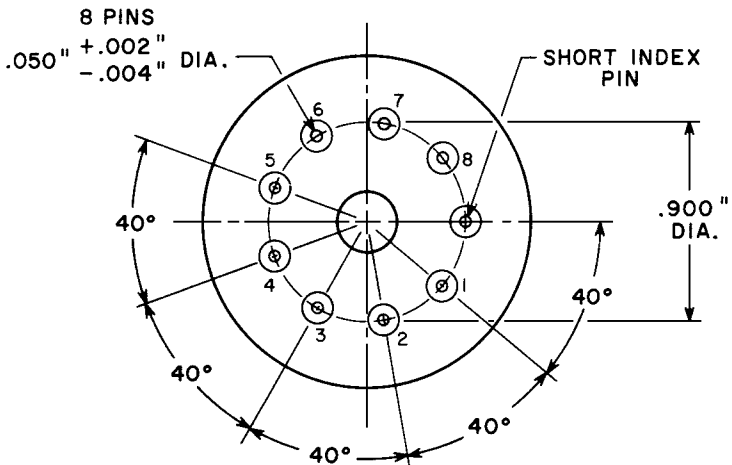
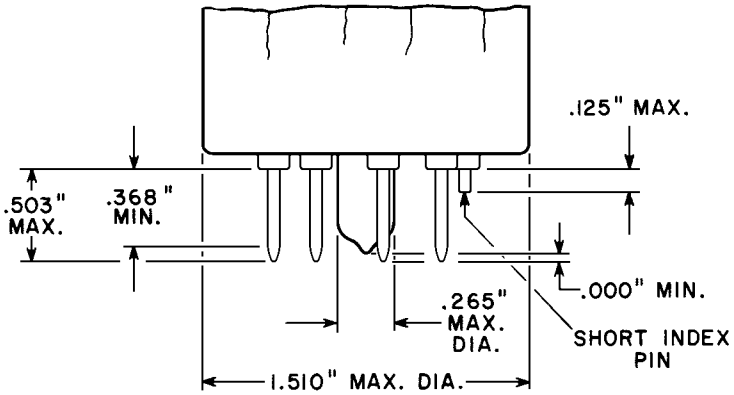
Base-pin positions are held to tolerances such that entire length of pins will, without undue force, pass into and disengage from flat-plate gauge having thickness of 1/4" and nine holes with diameters of $0.0700" \pm 0.0005"$ so located on a $0.6000" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.2052" \pm 0.0005"$. Gauge is also provided with a hole having diameter of $0.300" \pm 0.001"$ concentric with the pin circle.

This number applies to stem only.

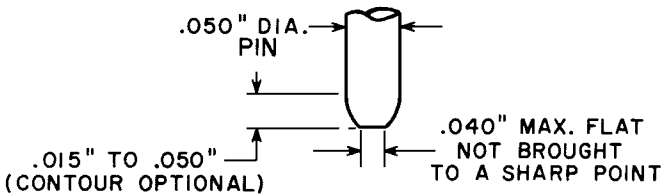
8-Pin Types

SMALL-BUTTON SUPERDITETRAR

Pin Dimensions and Orientation



Superditettrar-Base-Pin Contour



JEDEC No.E8-78
RCA No.FSB6055#

Base-pin positions are held to tolerances such that entire length of pins will, without undue force, pass into and disengage from a flat-plate gauge having a thickness of

This number applies to stem only.

Bases

8-Pin Types

1/4" and nine holes with diameters of $0.0700" \pm 0.0005"$ so located on a $0.9000" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.3078" \pm 0.0005"$. Gauge is also provided with a hole having diameter of $0.300" \pm 0.001"$ concentric with the pin circle.

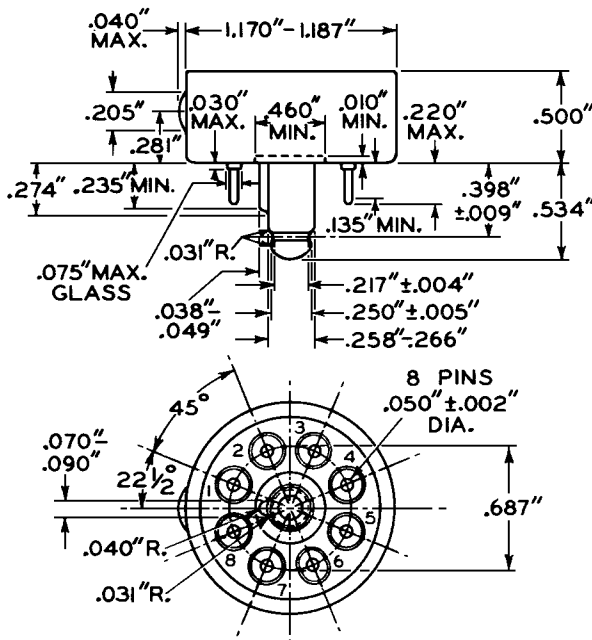




BASES

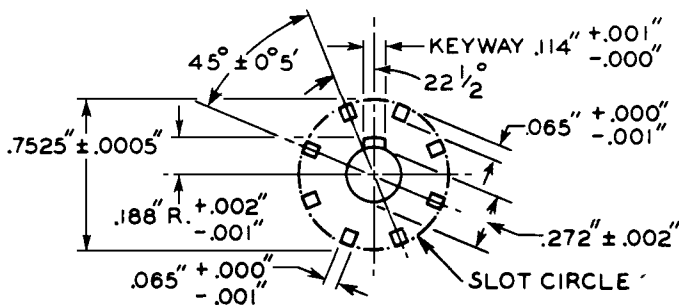
8-PIN TYPES

LOCK-IN 8-PIN



JETEC No. D8-1

Base-pin positions are held to tolerances such that entire length of pins will without undue force pass into and disengage from gauge JETEC No. GD8-1. This gauge contains a flat-plate section having thickness of 1/4" and eight slots located and dimensioned as shown on the following diagram. Flat-plate section is also provided with a hole having diameter of $0.272" \pm 0.002"$ concentric with slot circle, and with a keyway as shown on the diagram.

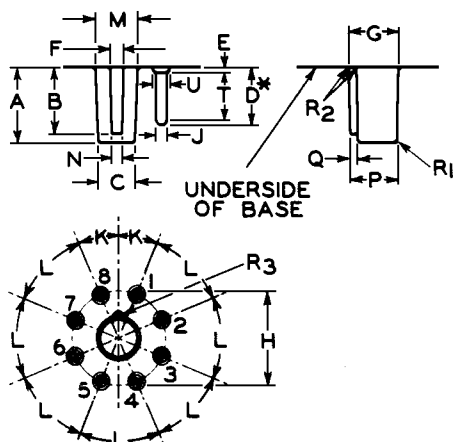




BASES

8-PIN TYPES

"OCTAL" PIN DIMENSIONS AND ORIENTATION AND INDEX GUIDE



	Min.	Center	Max.		Min.	Center	Max.
A	.550"	.560"	.570"	L	—	45°	—
B	.490"	.500"	.510"	M	.305"	.312"	.317"
C	.300"	.308"	.315"	N	.075"	.080"	.085"
D	.427"	.437"	.447"	P	.343"	.353"	.363"
E	—	—	.050"	Q	.040"	.047"	.055"
F	.085"	.090"	.095"	R ₁	—	.031"	—
G	.352"	.362"	.372"	R ₂	—	—	.050"
H	—	.687"	—	R ₃	—	.040"	—
J	.090"	.093"	.096"	T	.340"	—	—
K	—	22.5°	—	U	—	—	.135"

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GB8-1) having thickness of 1/4" and eight holes with diameters of 0.1030" ± 0.0005" so located on a 0.6870" ± 0.0005" diameter circle that the distance along the chord between any two adjacent hole centers is 0.2629" ± 0.0005".

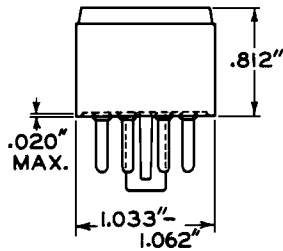
Pin fit in gauge is such that gauge together with supplementary weight totaling 2 pounds will not be lifted when pins are withdrawn.

* Add 0.030" for solder on finished tube.

Bases

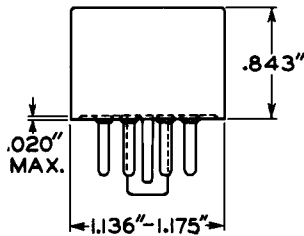
8-Pin Types

DWARF-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
5-Pin	1, 3, 5, 7, 8	B5-45	-

SMALL-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-1	8529
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-2	7529
6-Pin	1, 2, 3, 5, 7, 8	B6-3	6529
5-Pin	1, 2, 4, 6, 8	B5-5	5529

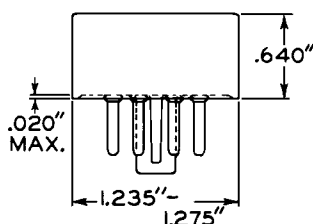
For other dimensions, see *first page of the "Octal" series*



Bases

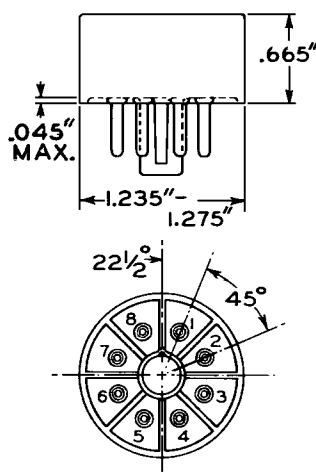
8-Pin Types

SHORT INTERMEDIATE-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-46	8555
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-47	7555
6-Pin	1, 2, 3, 5, 7, 8	B6-48	6555
5-Pin	1, 2, 4, 6, 8	B5-49	5555

SHORT INTERMEDIATE-SHELL OCTAL WITH EXTERNAL BARRIERS



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-58	8565
7-Pin ^a	1, 2, 3, 4, 5, 7, 8	B7-59	7565
7-Pin ^b	1, 2, 3, 5, 6, 7, 8	B7-211	-
6-Pin ^a	1, 2, 3, 5, 7, 8	B6-60	6565
6-Pin ^b	2, 3, 4, 5, 7, 8	B6-84	6765
5-Pin ^a	1, 2, 4, 6, 8	B5-62	5565
5-Pin ^b	2, 3, 5, 7, 8	B5-85	5765
5-Pin ^c	2, 4, 5, 7, 8	B5-187	-

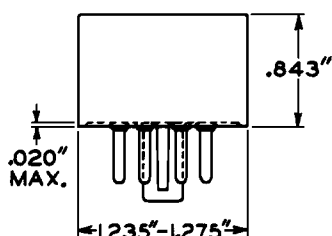
For other dimensions, see *first page of the "Octal" series*

- ^a Arrangement 1.
^b Arrangement 2.
^c Arrangement 3.

Bases

8-Pin Types

INTERMEDIATE-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-6	8537
7-Pin ^a	1, 2, 3, 4, 5, 7, 8	B7-7	7537
7-Pin ^b	1, 2, 3, 5, 6, 7, 8	B7-166	39100
6-Pin ^a	1, 2, 3, 5, 7, 8	B6-8	6537
6-Pin ^b	2, 3, 4, 5, 7, 8	B6-81	6737
5-Pin ^a	1, 2, 4, 6, 8	B5-10	5537
5-Pin ^b	2, 3, 5, 7, 8	B5-82	5737

For other dimensions, see *first page*
of the "Octal" series

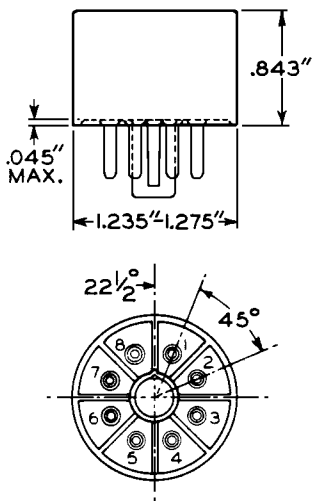
- ^a Arrangement 1.
^b Arrangement 2.



Bases

8-Pin Types

INTERMEDIATE-SHELL OCTAL WITH EXTERNAL BARRIERS



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-142	8566
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-143	7566
6-Pin ^a	1, 2, 3, 5, 7, 8	B6-144	6566
6-Pin ^b	2, 3, 4, 5, 7, 8	B6-145	6766
6-Pin ^c	2, 3, 5, 6, 7, 8	B6-229	39111
5-Pin ^a	1, 2, 4, 6, 8	B5-146	5566
5-Pin ^b	2, 3, 5, 7, 8	B5-147	5766

For other dimensions, see *first page*
of the "Octal" series

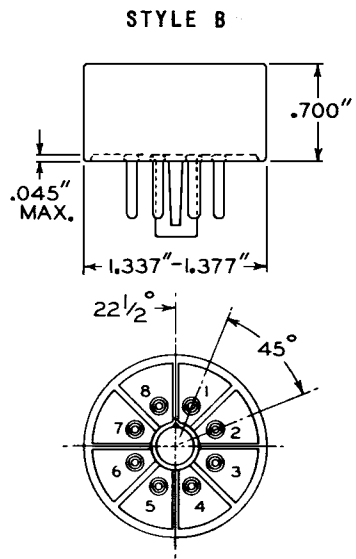
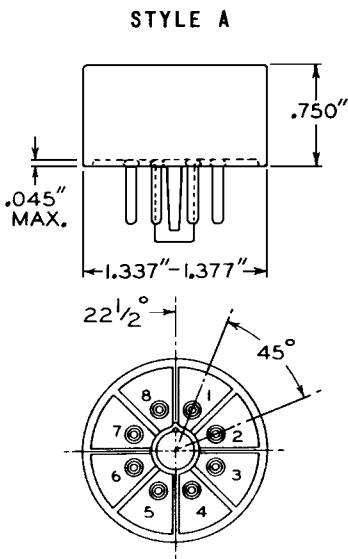
^a Arrangement 1.
^b Arrangement 2.
^c Arrangement 3.



Bases

8-Pin Types

SHORT MEDIUM-SHELL OCTAL WITH EXTERNAL BARRIERS



No. of Pins	Pins	Style	JEDEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	A	B8-110	39081
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B	B8-118	8564
7-Pin ^a	1, 2, 3, 4, 5, 7, 8	A	B7-111	—
7-Pin ^a	1, 2, 3, 4, 5, 7, 8	B	B7-119	7564
7-Pin ^b	1, 2, 3, 5, 6, 7, 8	B	B7-227	39113
7-Pin ^c	1, 2, 3, 4, 6, 7, 8	B	B7-235	—
6-Pin ^a	1, 2, 3, 5, 7, 8	A	B6-112	—
6-Pin ^a	1, 2, 3, 5, 7, 8	B	B6-120	6564
6-Pin ^b	2, 3, 4, 5, 7, 8	A	B6-148	—
6-Pin ^b	2, 3, 4, 5, 7, 8	B	B6-122	6764
5-Pin ^a	1, 2, 4, 6, 8	A	B5-113	—
5-Pin ^a	1, 2, 4, 6, 8	B	B5-121	5564
5-Pin ^b	2, 3, 5, 7, 8	A	B5-149	—
5-Pin ^b	2, 3, 5, 7, 8	B	B5-123	5764
5-Pin ^c	1, 2, 3, 5, 7	A	B5-234	—
5-Pin ^c	1, 2, 3, 5, 7	B	B5-239	39116
5-Pin ^d	2, 4, 5, 7, 8	B	B5-190	39110

For other dimensions, see first page
of the "Octal" series

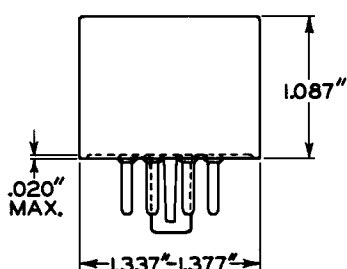
- ^a Arrangement 1.
- ^b Arrangement 2.
- ^c Arrangement 3.
- ^d Arrangement 4.



Bases

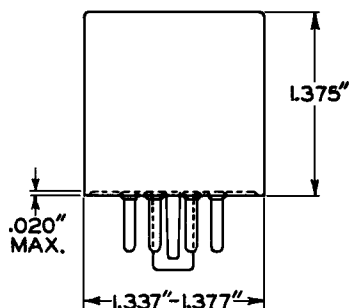
8-Pin Types

MEDIUM-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-11	8533
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-12	7533
6-Pin	1, 2, 3, 5, 7, 8	B6-13	6533
5-Pin ^a	1, 2, 4, 6, 8	B5-15	5533
5-Pin ^b	2, 3, 5, 7, 8	B5-224	5733

LONG MEDIUM-SHELL OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-65	8545
5-Pin	2, 3, 5, 7, 8	B5-80	5545

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

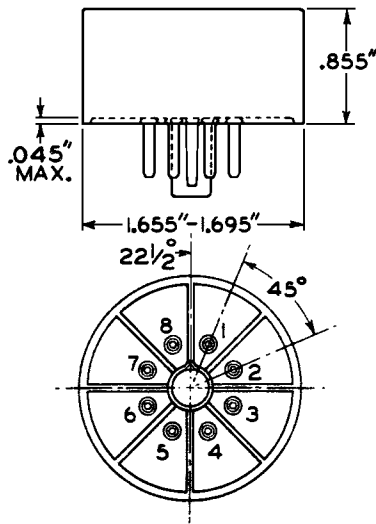
- ^a Arrangement 1.
^b Arrangement 2.



BASES

8-PIN TYPES

SHORT JUMBO-SHELL OCTAL WITH EXTERNAL BARRIERS



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-71	8556
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-72	7556
6-Pin	1, 2, 3, 5, 7, 8	B6-73	6556
5-Pin	1, 2, 4, 6, 8	B5-74	5556

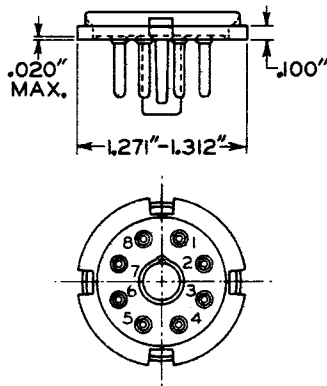
*For other dimensions, see first page
of the "Octal" series*



BASES

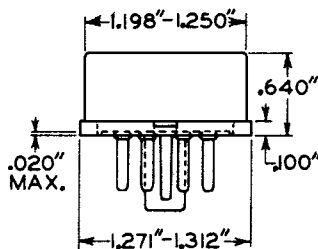
8-PIN TYPES

SMALL-WAFER OCTAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-21	8527 8540
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-22	7527 7540
6-Pin	1, 2, 3, 5, 7, 8	B6-23	6527 6540
5-Pin	1, 2, 4, 6, 8	B5-25	5527 5540

SMALL-WAFER OCTAL WITH SLEEVE



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-44	MB8527-602

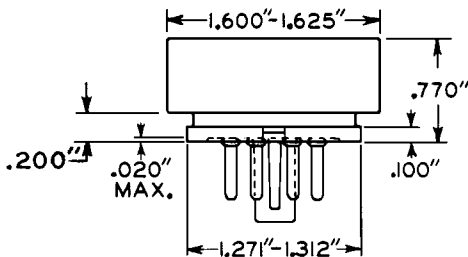
For other dimensions of above bases, see first page of the "Octal" series



BASES

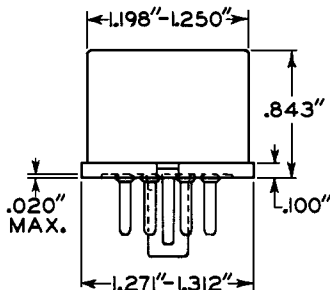
8-PIN TYPES

SMALL-WAFER OCTAL WITH "770" SLEEVE



No. of Pins	Pins	JETEC No.	RCA No.	
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-150	MB8540-7	MB8527-603
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-151	MB7540-4	—
6-Pin ■	1, 2, 3, 5, 7, 8	B6-152	MB6540-5	—
6-Pin ▲	2, 3, 4, 5, 7, 8	B6-153	MB6740-1	—
5-Pin ■	1, 2, 4, 6, 8	B5-154	MB5540-1	—
5-Pin ▲	2, 3, 5, 7, 8	B5-155	MB5740-1	—

SMALL-WAFER OCTAL WITH "843" SLEEVE



No. of Pins	Pins	JETEC No.	RCA No.	
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-26	MB8527-1	MB8540-3
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-27	MB7527-1	MB7540-1
6-Pin	1, 2, 3, 5, 7, 8	B6-28	MB6527-1	MB6540-3
5-Pin	1, 2, 4, 6, 8	B5-30	MB5527-1	MB5540-2

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

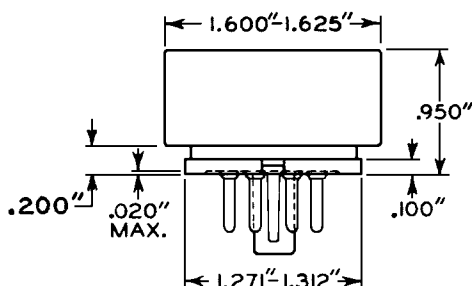
- Arrangement 1.
- ▲ Arrangement 2.



BASES

8-PIN TYPES

SMALL-WAFER OCTAL WITH ".950" SLEEVE



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-191	MB8540-8
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-192	MB7540-5
6-Pin ■	1, 2, 3, 5, 7, 8	B6-193	MB6540-6
6-Pin ▲	2, 3, 4, 5, 7, 8	B6-194	MB6740-2
5-Pin ■	1, 2, 4, 6, 8	B5-195	MB5540-3
5-Pin ▲	2, 3, 5, 7, 8	B5-196	MB5740-2

*For other dimensions of above base, see first
page of the "Octal" series*

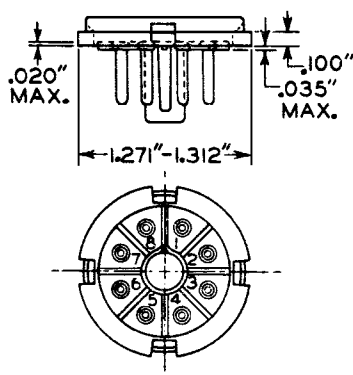
- Arrangement 1.
▲ Arrangement 2.



BASES

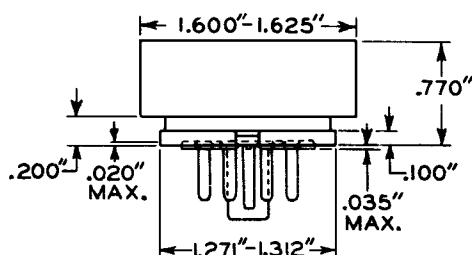
8-PIN TYPES

SMALL-WAFER OCTAL WITH EXTERNAL BARRIERS



No. of Pins	Pins	JETEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-67	8559
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-68	7559
6-Pin ■	1, 2, 3, 5, 7, 8	B6-69	6559
6-Pin ▲	2, 3, 4, 5, 7, 8	B6-205	6759
5-Pin ■	1, 2, 4, 6, 8	B5-70	5559
5-Pin ▲	2, 3, 5, 7, 8	B5-206	5759

SMALL-WAFER OCTAL WITH EXTERNAL BARRIERS AND ".770" SLEEVE



No. of Pins	Pins	JETEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-159	MB8559-2
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-160	MB7559-1
6-Pin ■	1, 2, 3, 5, 7, 8	B6-161	MB6559-1
6-Pin ▲	2, 3, 4, 5, 7, 8	B6-162	MB6759-1
5-Pin ■	1, 2, 4, 6, 8	B5-163	MB5559-1
5-Pin ▲	2, 3, 5, 7, 8	B5-164	MB5759-1

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

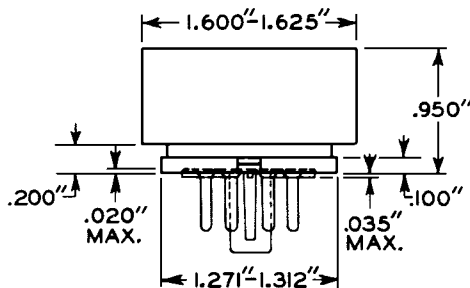
- Arrangement 1.
- ▲ Arrangement 2.



BASES

8-PIN TYPES

SMALL-WAFER OCTAL WITH EXTERNAL BARRIERS AND ".950" SLEEVE



No. of Pins	Pins	JETEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-197	MB8559-4
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-198	MB7559-2
6-Pin ■	1, 2, 3, 5, 7, 8	B6-199	MB6559-2
6-Pin ▲	2, 3, 4, 5, 7, 8	B6-200	MB6759-2
5-Pin ■	1, 2, 4, 6, 8	B5-201	MB5559-2
5-Pin ▲	2, 3, 5, 7, 8	B5-202	MB5759-2

For other dimensions of above base, see first page of the "Octal" series

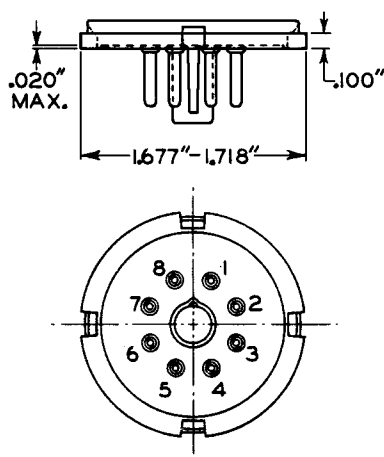
- Arrangement 1.
▲ Arrangement 2.



BASES

8-PIN TYPES

LARGE-WAFER OCTAL



No. of
Pins
8-Pin

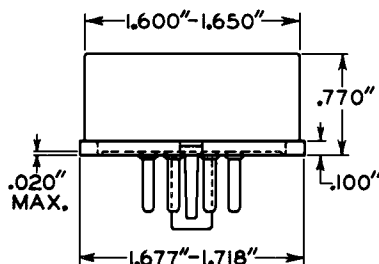
Pins

1, 2, 3, 4, 5, 6, 7, 8

JETEC
No.
B8-32

RCA
No.
8534

LARGE-WAFER OCTAL WITH SLEEVE



No. of
Pins
8-Pin

Pins

1, 2, 3, 4, 5, 6, 7, 8

JETEC
No.
B8-86

RCA
No.
MB8534-601

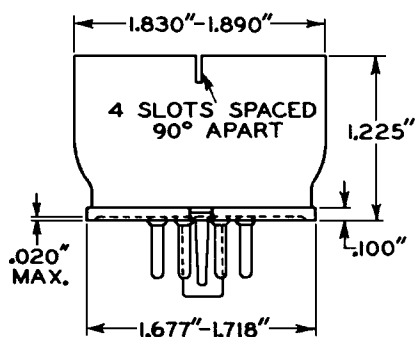
*For other dimensions of above bases, see first
page of the "Octal" series*



BASES

8-PIN TYPES

LARGE-WAFER OCTAL WITH FLARED SLEEVE



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-188	MB8534-600

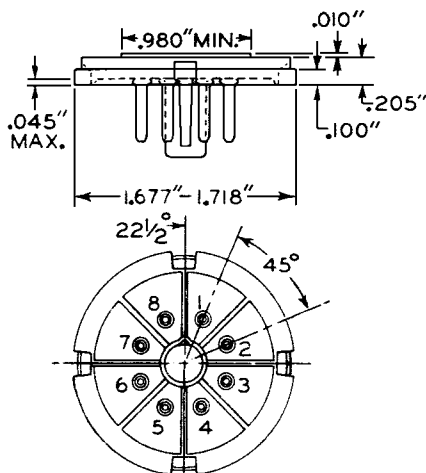
*For other dimensions, see first page
of the "Octal" series*



BASES

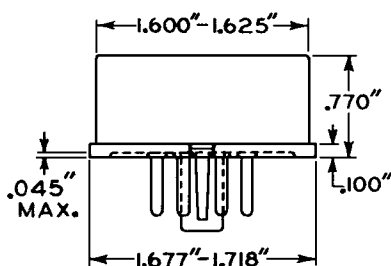
8-PIN TYPES

LARGE-WAFER OCTAL WITH EXTERNAL BARRIERS



No. of Pins	Pins	JETEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-94	8554
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-95	7554
6-Pin	1, 2, 3, 5, 7, 8	B6-96	6554
5-Pin	1, 2, 4, 6, 8	B5-97	5554

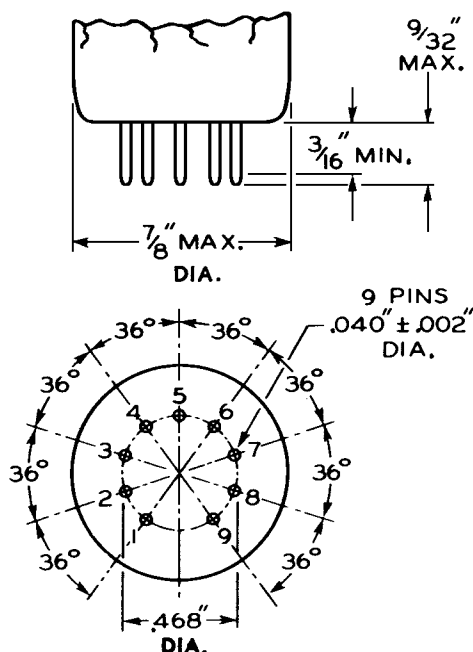
LARGE-WAFER OCTAL WITH EXTERNAL BARRIERS AND SLEEVE



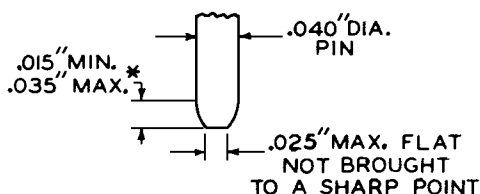
No. of Pins	Pins	JETEC No.	RCA No.
8-Pin	1, 2, 3, 4, 5, 6, 7, 8	B8-98	MB8554-1 MB8554-600
7-Pin	1, 2, 3, 4, 5, 7, 8	B7-99	MB7554-1 -
6-Pin	1, 2, 3, 5, 7, 8	B6-100	MB6554-1 -
5-Pin	1, 2, 4, 6, 8	B5-101	MB5554-2 -

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

SMALL-BUTTON NOVAL 9-PIN



Noval-Base-Pin Contour



JEDEC No. E9-1

Base-pin positions are held to tolerances such that entire length of pins will without undue force pass into and disengage from gauge JEDEC No. GE9-1. This gauge contains a flat-plate section having thickness of 1/4" and ten holes with diameters of $0.0520" \pm 0.0005"$ so located on a $0.4680" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.1446" \pm 0.0005"$.

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.

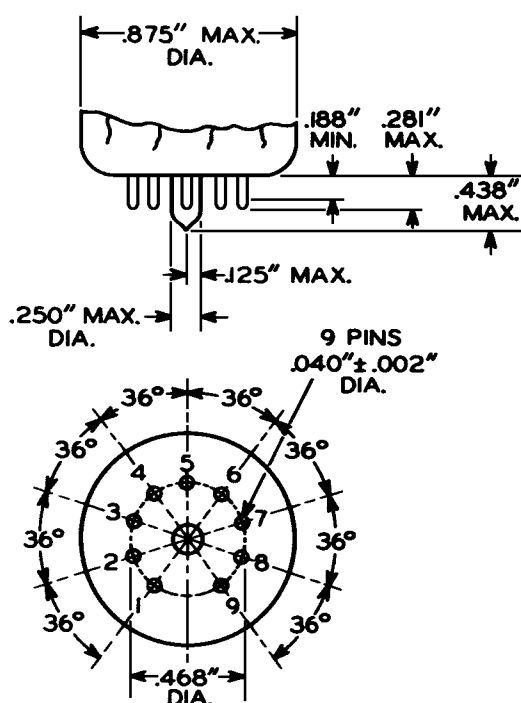
* This dimension around the periphery of any individual pin may vary within the limits shown.



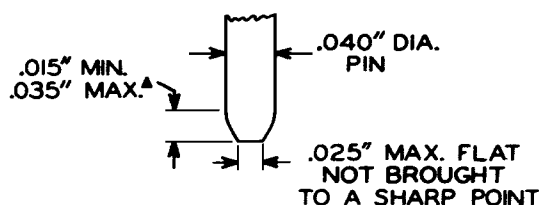
Bases

9-Pin Types

SMALL-BUTTON NINAR 9-PIN Pin Dimensions and Orientation



Ninar-Base-Pin Contour



JEDEC No. E9-37

Base-pin positions are held to tolerances such that entire length of pins will without undue force pass into and disengage from gauge JEDEC No. GE9-2. This gauge contains a flat-plate section having thickness of 0.250" and ten holes with diameters of $0.0520" \pm 0.0005"$ so located on a $0.4680" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.1446" \pm 0.0005"$. Gauge is also provided with a hole 0.281" minimum diameter concentric with the pin circle.

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

Bases

9-Pin Types

SMALL-BUTTON NINAR 9-PIN (CONT'D)

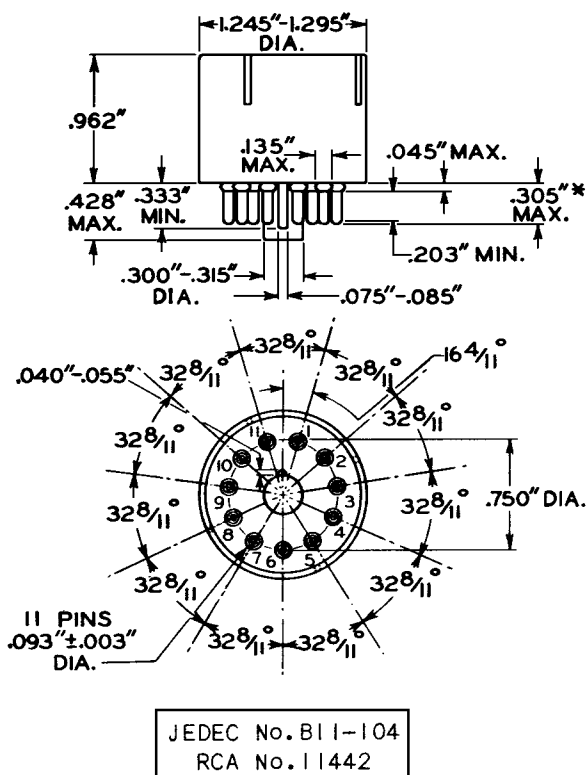
The design of the socket should be such that circuit wiring cannot impress lateral strains through the socket contacts on the base pins. The point of bearing of the contacts on the base pins should not be closer than 1/8" from the bottom of the seated tube.



Bases

11-Pin Types

SMALL-SHELL NEOSUBMAGNAL 11-PIN



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JEDEC Group 2, No. GB11-2) having thickness of $1/4$ " and eleven holes with diameters of $0.1030" \pm 0.0005"$ so located on a $0.7500" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.213" \pm 0.0005"$.

Pin fit in gauge is such that gauge together with supplementary weight totaling 3 pounds will not be lifted when pins are withdrawn.

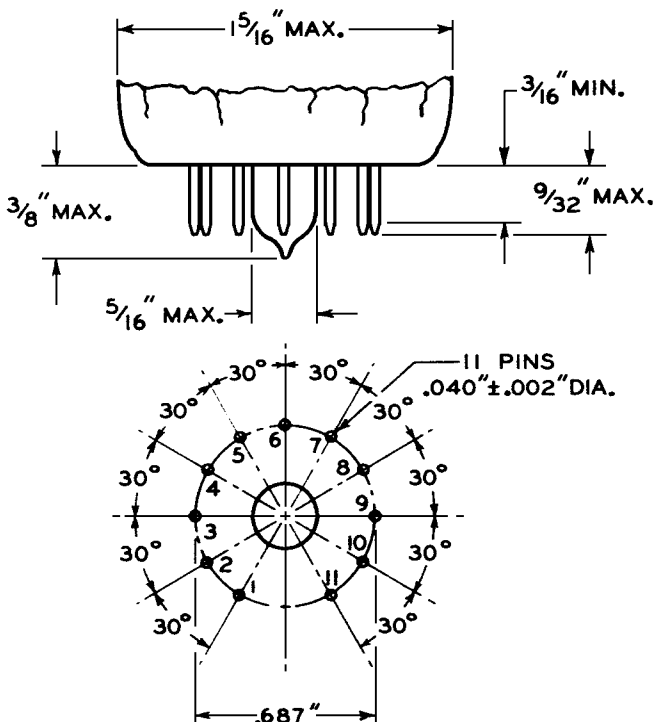
* Add $0.030"$ for solder on finished tube.



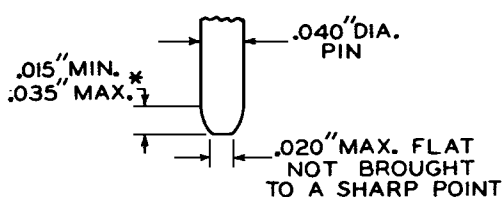
BASES

11-PIN TYPES

SMALL-BUTTON UNIDEKAR 11-PIN



Unidekar Base Pin Contour



JETEC No. E11-22
RCA No. FSB6019

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 1/4" and twelve holes with diameters of $0.0520" \pm 0.0005"$ so located on a $0.6870" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.1778" \pm 0.0005"$. Gauge is also provided with a hole $0.3750" \pm 0.0100"$ concentric with the pin circle.

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



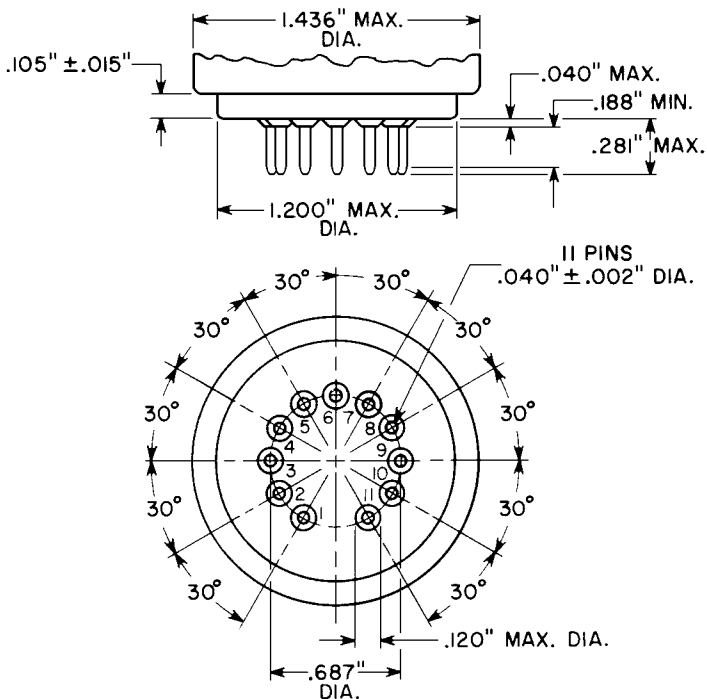
BASES

11-PIN TYPES

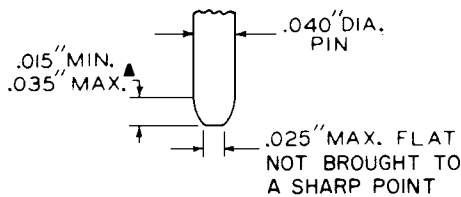
SMALL-BUTTON UNIDEKAR 11-PIN (CONT'D)

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.

LARGE-WAFER ELEVENAR 11-PIN WITH RING Pin Dimensions and Orientation



Elevenar-Base-Pin Contour



JEDEC No. E11-81

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 (JEDEC No. GE11-1) having a thickness of 0.250" and twelve holes with diameters of $0.0520" \pm 0.0005"$ so located on a $0.6870" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.1778" \pm 0.0005"$. Gauge is also provided with a hole $0.3750" \pm 0.0005"$ diameter concentric with the pin circle.

▲ This dimension around the periphery of any individual pin may vary within the limits shown. The surface of the pin is convex or conical in shape and not brought to a sharp point.

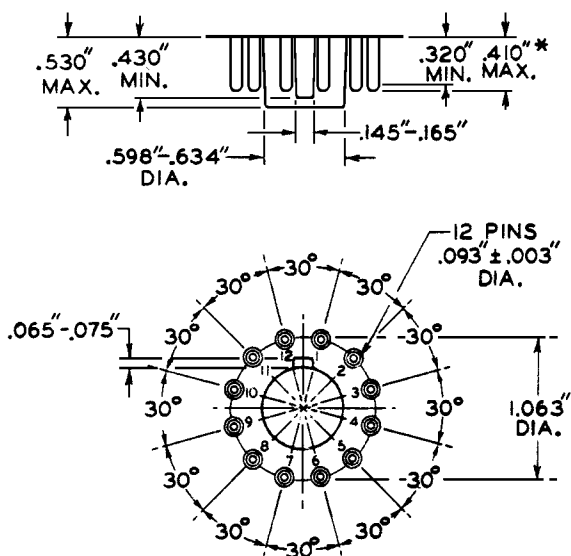




BASES

12-PIN TYPES

"DUODECAL" PIN DIMENSIONS AND ORIENTATION AND INDEX GUIDE



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GB12-1) having thickness of 1/4" and twelve holes with diameters of $0.1030" \pm 0.0005"$ so located on a $1.0630" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.2751" \pm 0.0005"$.

Pin fit in gauge is such that gauge together with supplementary weight totaling 3 pounds will not be lifted when pins are withdrawn.

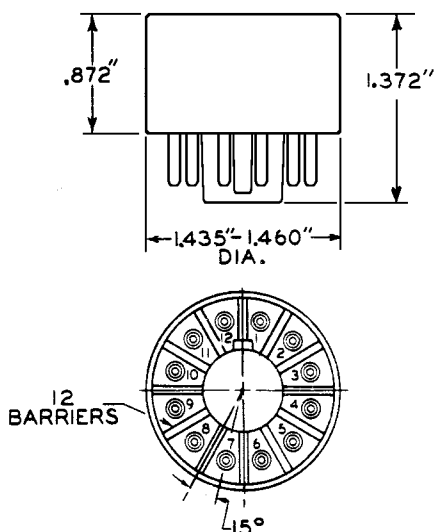
* Add 0.030" for solder on finished tube.



BASES

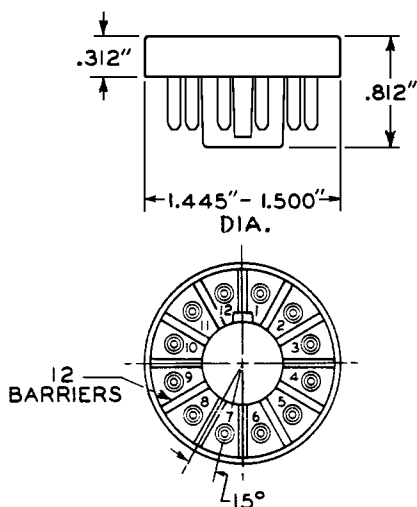
12-PIN TYPES

DWARF-SHELL DUODECAL



No. of Pins	Pins	JETEC No.	RCA No.
12-Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	B12-157	12263
6-Pin	1, 2, 3, 10, 11, 12	B6-158	6263

ULTRASHORT SMALL-SHELL DUODECAL



No. of Pins	Pins	JETEC No.	RCA No.
12-Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	B12-186	12261

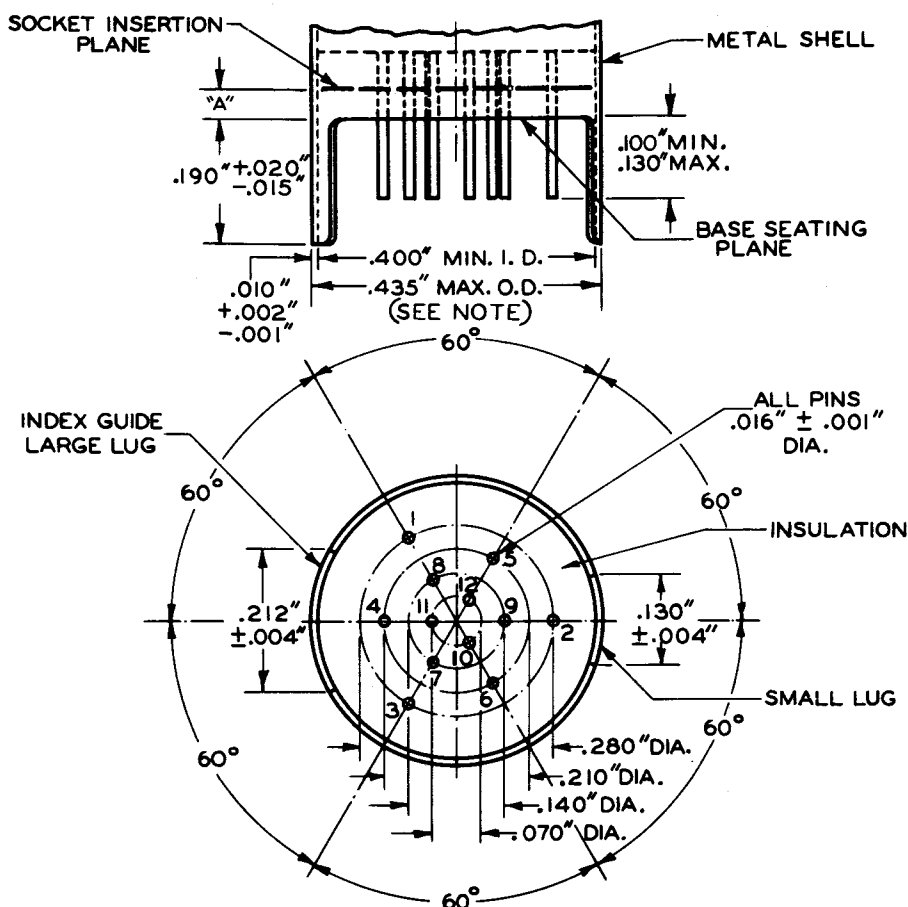
For other dimensions of above bases, see first page of the "Duodecal" series

Bases

12-Pin Types

MEDIUM CERAMIC-WAFER TWELVAR BASE

Pin Dimensions and Orientation and Index Guide



NOTE: MAXIMUM OUTSIDE DIAMETER OF 0.440" IS PERMITTED ALONG THE 0.190" LUG LENGTH.

No. of Pins	Pins	Dimension "A" Max.	JEDEC No.	RCA No.
12 - Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	0.040"	E12-64	-
7 - Pin ^a	1, 3, 5, 6, 7, 10, 12	0.020"	E7-77	-
5 - Pin ^b	2, 4, 8, 10, 12	0.040"	E5-79	-
5 - Pin ^c	2, 4, 8, 10, 12	0.040"	E5-65	-

^a Pins 2, 4, 8, 9 are cut off to a length such that their ends do not touch the socket insertion plane. Pin 11 is omitted.

^b Pin 7 is cut off to a length such that its end does not touch the socket insertion plane. Pins 1, 3, 5, 6, 9, 11 are omitted.

^c Pins 1, 3, 5, 6, 7, 9 are cut off to a length such that their ends do not touch the socket insertion plane. Pin 11 is omitted.



Bases

12-Pin Types

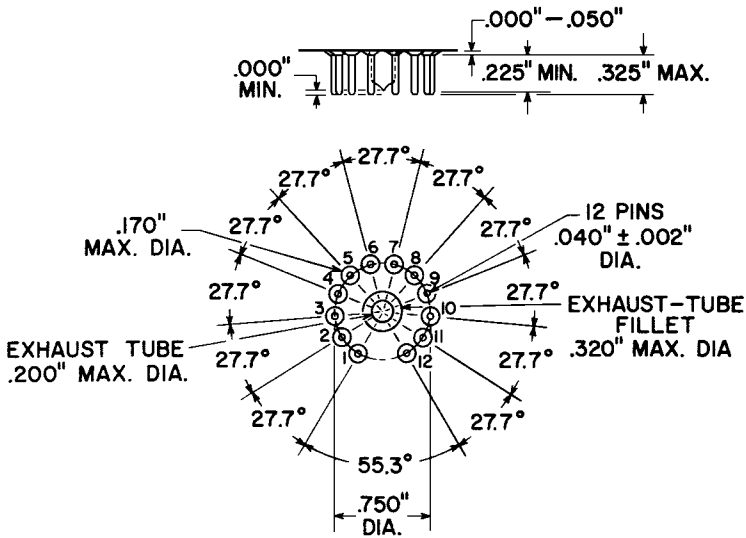
Base-pin positions and lug positions shall be held to tolerances such that entire length of pins and lugs will without undue force pass into and disengage from flat-plate gauge (JEDEC No. GE12-5) having thickness of 0.250" and twelve holes of $0.0350" \pm 0.0005"$ diameter located on four concentric circles as follows: Three holes located on $0.2800" \pm 0.0005"$, three holes located on $0.2100" \pm 0.0005"$, three holes located on $0.1400" \pm 0.0005"$, three holes located on $0.0700" \pm 0.0005"$ diameter circles at specified angles with a tolerance of $\pm 0.08^\circ$ for each angle. In addition, gauge provides for two curved slots with chordal lengths of $0.2270" \pm 0.0005"$ and $0.1450" \pm 0.0005"$ located on $0.4200" \pm 0.0005"$ diameter circle concentric with pin circles at $180^\circ \pm 0.08^\circ$ and having a width of $0.0230" \pm 0.0005"$.



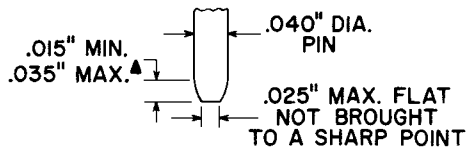
12-Pin Types

DUODECAR 12-PIN

Pin Dimensions and Orientation



Duodecar-Base-Pin Contour



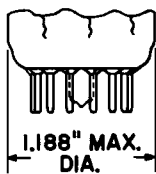
Base-pin positions are held to tolerances such that entire length of pins will, without undue force, pass into and disengage from flat-plate gauge having a thickness of 0.250" and thirteen holes with diameters of $0.0520" \pm 0.0005"$ so located on a $0.7500" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.1795" \pm 0.0005"$. Gauge is also provided with a hole $0.375" + 0.005" - 0.000"$ diameter concentric with the pin circle.

▲ This dimension around the periphery of any individual pin may vary within the limits shown. The surface of the pin is convex or conical in shape and not brought to a sharp point.

Bases

12-Pin Types

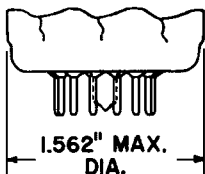
SMALL-BUTTON DUODECAR 12-PIN



JEDEC No. E12-70

Fits Gauge JEDEC No. GE12-3

LARGE-BUTTON DUODECAR 12-PIN



JEDEC No. E12-74

Fits Gauge JEDEC No. GE12-4

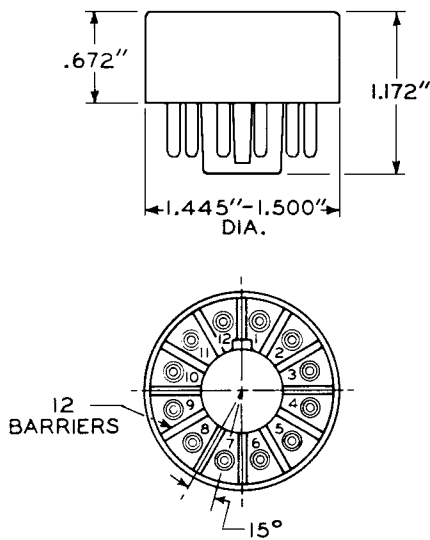




BASES

12-PIN TYPES

SHORT SMALL-SHELL DUODECAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
12-Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	B12-207	12267
6-Pin	1, 2, 6, 10, 11, 12	B6-203	6267

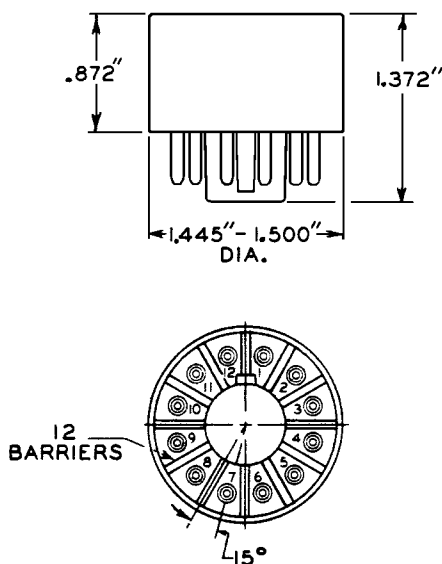
*For other dimensions, see first page
of the "Duodecal" series*



BASES

12-PIN TYPES

SMALL-SHELL DUODECAL



No. of Pins	Pins	JETEC No.	RCA No.
12-Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	B12-43	12253
10-Pin	1, 2, 3, 4, 6, 7, 8, 9, 10, 12	B10-75	10253
7-Pin ■	1, 2, 6, 7, 10, 11, 12	B7-51	7253
7-Pin ▲	1, 2, 3, 6, 10, 11, 12	B7-179	-
6-Pin ■	1, 2, 6, 10, 11, 12	B6-63	6253
6-Pin ▲	4, 5, 6, 7, 8, 12	B6-180	-
5-Pin	1, 2, 10, 11, 12	B5-57	5253

For other dimensions, see first page of the "Duodecal" series

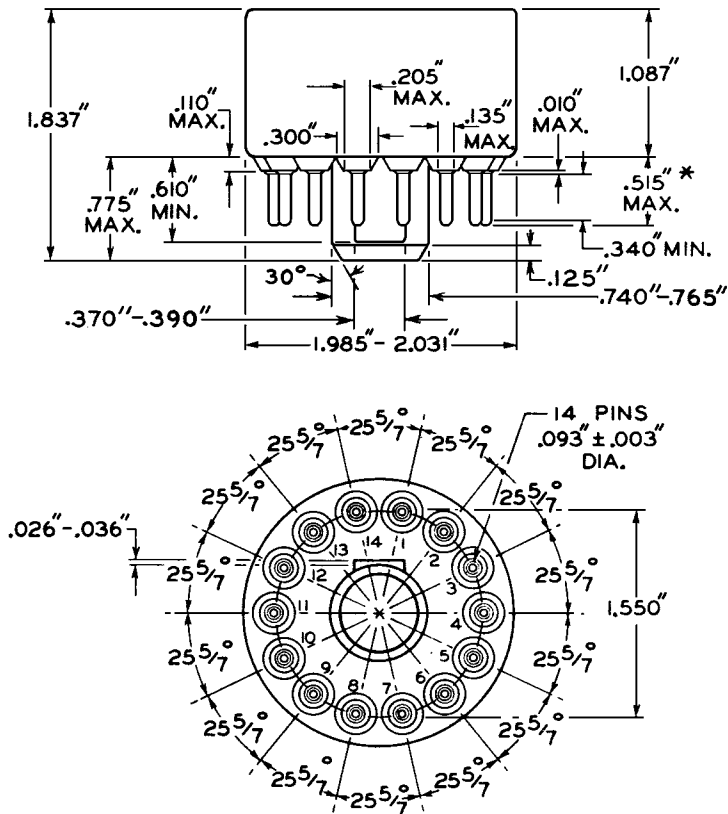
- Arrangement 1.
- ▲ Arrangement 2.



BASES

14-PIN TYPES

SMALL-SHELL NEODIHEPTAL



No. of Pins	Pins	JETEC No.	RCA No.
14-Pin	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	B14-130	14560
12-Pin	1, 2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 14	B12-131	12560

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GB14-2) having thickness of 1/4" and fourteen holes with diameters of 0.1030" ± 0.0005" so located on a 1.5500" ± 0.0005" diameter circle that the distance along the chord between any two adjacent hole centers is 0.3449" ± 0.0005".

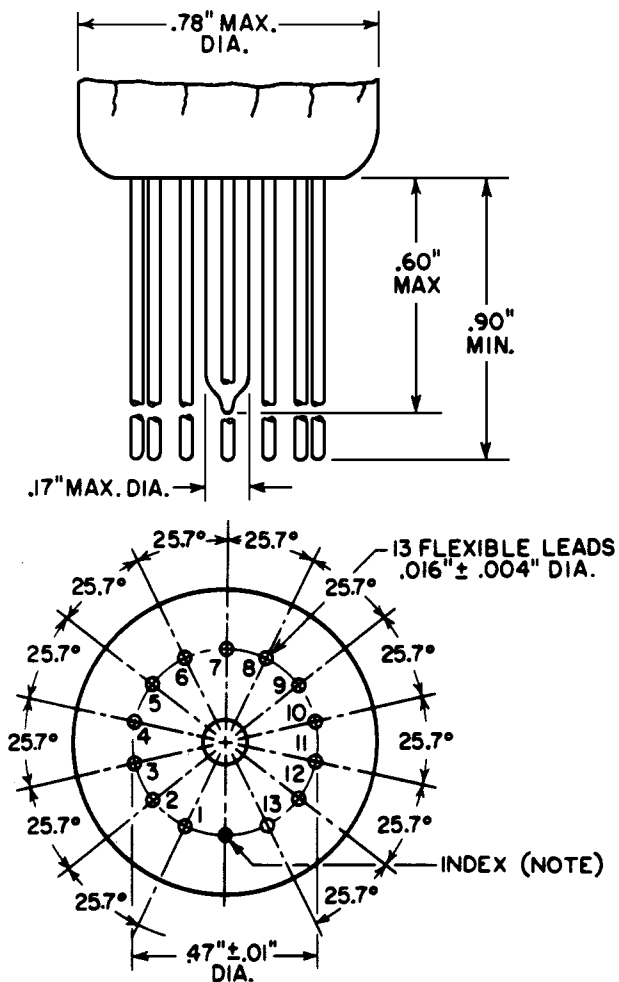
Pin fit in gauge is such that gauge together with supplementary weight totaling 3 pounds will not be lifted when pins are withdrawn.

* Add 0.030" for solder on finished tube.

Bases

13-Lead Types

SMALL-BUTTON THIRTEENAR



NOTE: LEAD IS CUT OFF WITHIN 0.04 INCH FROM THE GLASS BUTTON.

<i>No. of Leads</i>	<i>Leads</i>	<i>JEDEC No.</i>	<i>RCA No.</i>
13-Lead	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	E13-71	—
12-Lead [▲]	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,	E12-72	—

[▲] Lead 13 is cut off within 0.04 inch from the glass button.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

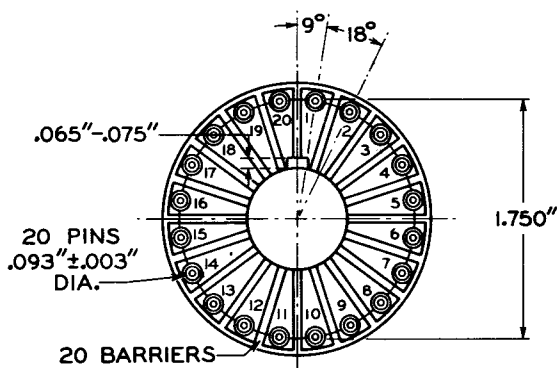
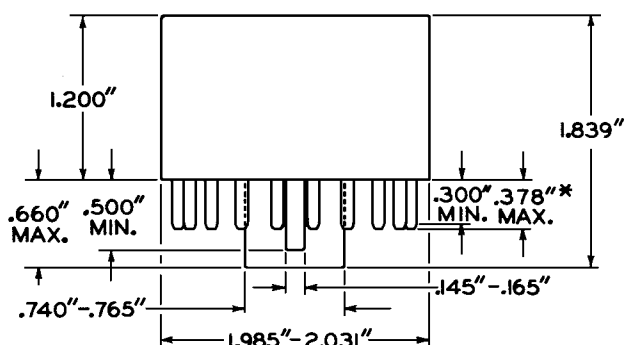
BASES 21pA
10-60



BASES

20-PIN TYPES

SMALL-SHELL BIDEAL



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
20-Pin	1 through 20	B20-102	20158

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge (JETEC No. GB20-1) having thickness of 1/4" and twenty holes with diameters of $0.1030" \pm 0.0005"$ so located on a $1.7500" \pm 0.0005"$ diameter circle that the distance along the chord between any two adjacent hole centers is $0.2738" \pm 0.0005"$.

Pin fit in gauge is such that gauge together with supplementary weight totaling 3 pounds will not be lifted when pins are withdrawn.

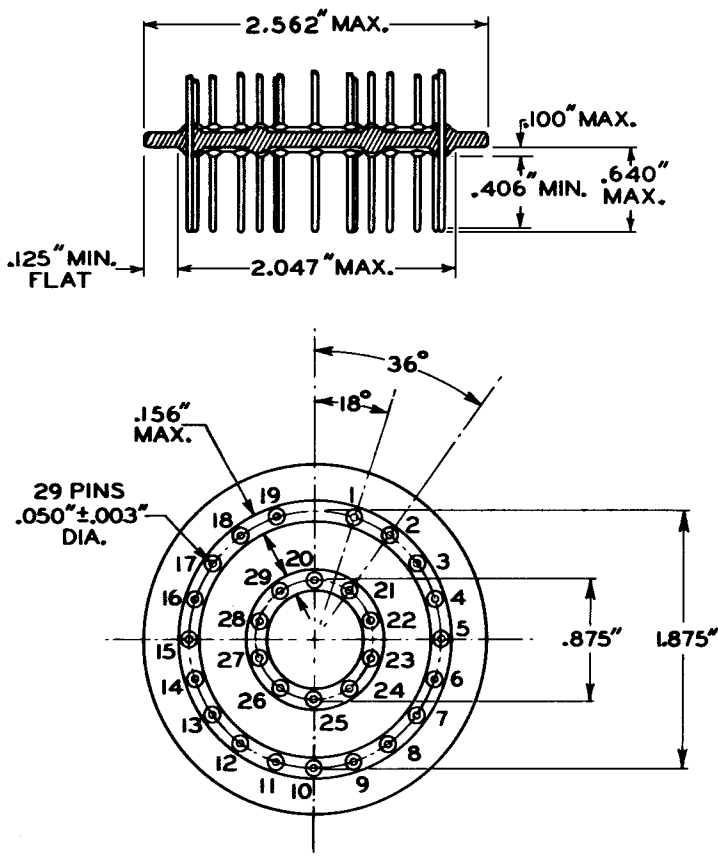
* Add 0.030" for solder on finished tube.



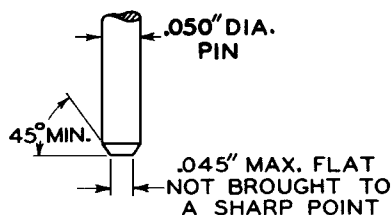
BASES

29-PIN TYPES

SMALL-BUTTON TWENTYNINAR



Twentyninar Base Pin Contour



No. of Pins	Pins	JETEC No.	RCA No.
29-Pin	1 through 29	E29-17	-
22-Pin	1 through 19, 21, 25, 28	E22-16	FSB693
8-Pin	2, 6, 10, 14, 18, 21, 25, 28	E8-19	FSB693A



BASES

29-PIN TYPES

SMALL-BUTTON TWENTYNINAR (CONT'D)

Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge having thickness of $3/8$ " and twenty-nine holes with diameters of $0.0700" \pm 0.0005"$, nineteen of which are located with hole centers corresponding to the specified location of pin centers on a $1.8750" \pm 0.0005"$ diameter circle, and ten of which are located with hole centers corresponding to the specified location of pin centers on a $0.8750" \pm 0.0005"$ diameter circle concentric with the $1.8750"$ circle.

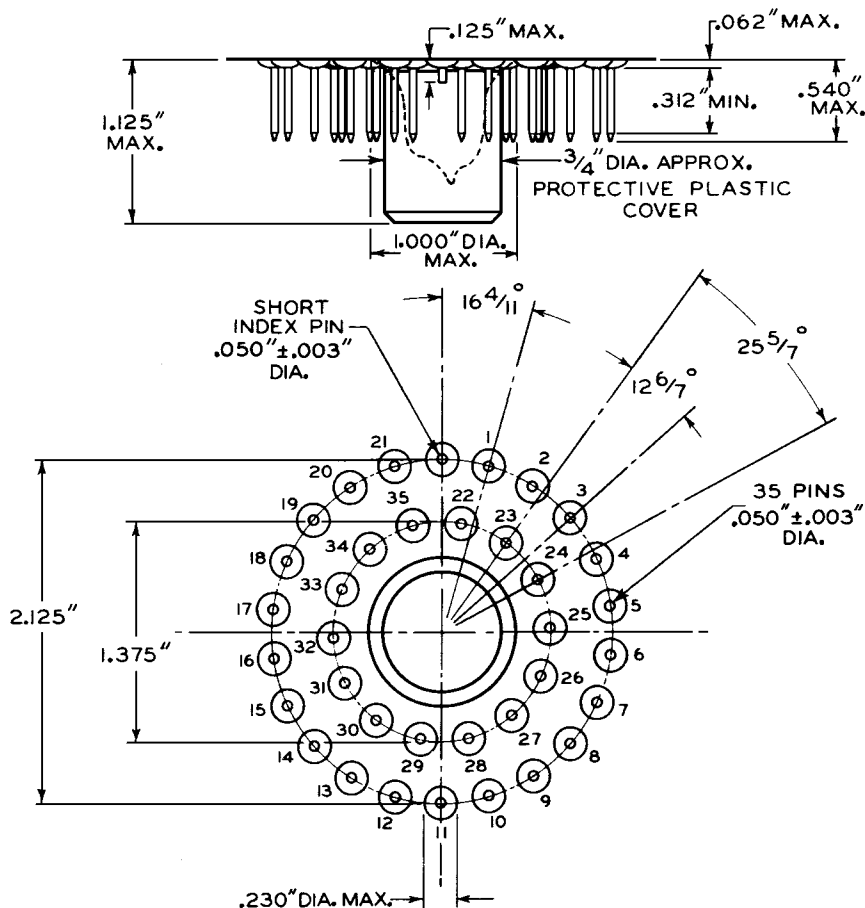
Pin fit in gauge is such that entire length of pins will, without undue force, enter into and disengage from the gauge.



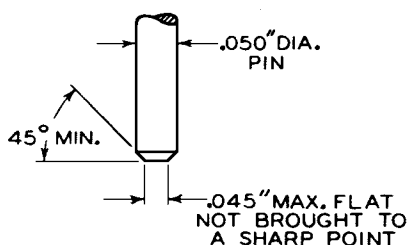
BASES

35-PIN TYPES

"THIRTYFIVAR" PIN DIMENSIONS AND ORIENTATION



Thirtyfivar-Base Pin Contour



Base-pin positions are held to tolerances such that entire length of pins will enter flat-plate gauge having thickness of 3/8" and thirty-six holes with diameters of $0.0700" \pm 0.0005"$, twenty-two of which are located with hole centers corresponding to the specified location of



BASES

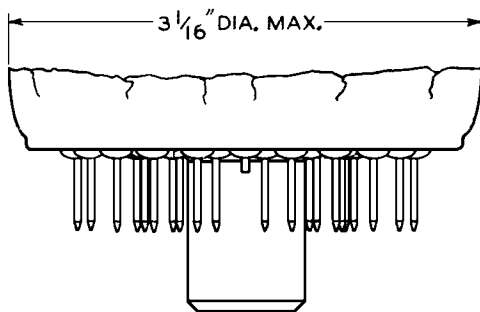
35-PIN TYPES

THIRTYFIVAR (CONT'D)

pin centers on a $2.1250'' \pm 0.0005''$ diameter circle, and fourteen of which are located with hole centers corresponding to the specified location of pin centers on a $1.3750'' \pm 0.0005''$ diameter circle concentric with the $2.1250''$ circle.

Pin fit in gauge is such that entire length of pins will, without undue force, enter into and disengage from the gauge. Gauge is also provided with a hole $1.000''$ diameter minimum concentric with pin circles.

SMALL-BUTTON THIRTYFIVAR



<i>No. of Pins</i>	<i>Pins</i>	<i>JETEC No.</i>	<i>RCA No.</i>
35-Pin	1 through 35	E35-28	-
33-Pin	Omit pins 24 and 30	E33-29	-
31-Pin	Omit pins 24 and 30; pins 23 and 31 are trimmed to same di- mension as index pin.	E31-36	-
21-Pin	1 through 21	E21-40	-

*For other dimensions of above base, see first
page of the "Thirtyfivar" series*