

# Panel Potentiometer

## P260 / P261 Series



### Features:

- Sealed / dust proof
- 1,000,000 cycle life
- Rotary switch option
- Detent and wire lead options
- Multiple gangs available
- Meets MIL-PRF-94 requirements



### Description:

12.7mm (1/2") Square, Rotary Potentiometer, with metal shaft and bushing. Options include audio and linear resistance tapers; flatted and slotted shafts

### Applications:

- Electric Guitars, Amplifiers, Mixers
- Drum Machines, Synthesizers

### Model Styles Available

Side Adjust, PCB Leads, Potentiometer Module (Up to 6 gangs)	P260P
Side Adjust, PCB Leads, with Rotary Switch Module (Up to 5 gangs)	P260S
Side Adjust, PCB Leads, with Detent Module (Up to 6 gangs)	P260D
Top Adjust, PCB Leads, Potentiometer Module (Up to 2 gangs)	P260T
Potentiometer Module with Wire Leads (Up to 6 gangs)	P260L
Potentiometer Module with Ribbon Cable (Up to 6 gangs)	P260R
Side Adjust, Solder Lug Leads, Potentiometer Module (Up to 6 gangs)	P261P
Side Adjust, Solder Lug Leads, with Rotary Switch Module (Up to 5 gangs)	P261S
Side Adjust, Solder Lug Leads, with Detent Module (Up to 6 gangs)	P261D

### Electrical Characteristics

T<sub>A</sub> = 25°C unless otherwise noted

Resistance Range	500-1M (for "B" taper), 2K-1M (for other tapers)
Standard Resistance Tolerance	±10%
Residual Resistance, Maximum	2 Ω
Resistance Taper	Audio ("A", "C", "D"), Linear ("B") see note 4
Maximum Operating Voltage	350 Vac
Rated Power	0.5W ("B" taper), 0.25W (other tapers)
Dielectric Strength	1,500 Vac, sea level
Nominal Electrical Travel	265°
Insulation Resistance	1,000 MΩ
Gang Error (Dual Unit)	±3dB (-40dB to 0dB)

#### General Note

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413 Rood RD, Suite 7  
Calexico, CA 92231  
Ph: +1 (714) 447-2345  
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### Switch Characteristics

T<sub>A</sub> = 25°C unless otherwise noted

Switch Circuit	SPDT
Contact Resistance, Maximum	150 mΩ
Rated Power	0.5 A at 30 Vdc
Switch Life	50,000 cycles

### Mechanical Characteristics

T<sub>A</sub> = 25°C unless otherwise noted

Mechanical Travel (Rotational angle)	295° ± 10°
Rotational Torque, Maximum	108 gf.cm (36 gf.cm in each additional gang)
Rotational Stop Strength	2,880 gf.cm
Detent Torque, Minimum	144 gf.cm
Nut Tightening Strength	8 kgf.cm minimum
Rotational Life	1,000,000 cycles

### Environmental Characteristics

T<sub>A</sub> = 25°C unless otherwise noted

Operating Temperature	-55°C to +125°C
IP Rating	Sealed = IP66 Dust proof = IP50
Soldering Condition	Wave Soldering 260°C maximum for 1-3 seconds Hand Soldering 300°C maximum for 3 seconds
RoHS	<a href="#">Please refer to TT Electronics Website</a>
REACH	<a href="#">Please refer to TT Electronics Website</a>

### Packaging

Standard Packaging	Plastic Trays
Hardware: A (3.2mm) Shaft	Lockwasher and Mounting Nut
B (6.35mm) Shaft	Flat Washer, Lockwasher, and Mounting Nut

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### Ordering Information

P260	D	-	D	2	1	A	F	1	C	B	100K
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Part Family

P260 - PC Pins, Wires, or  
Ribbon Cable  
P261 - Solder Lugs  
(only P, S, and D styles)

Style

P - Potentiometer  
S - with Switch  
D - with Detent Module  
T - Top Adjust  
L - with Lead Wires  
R - with Ribbon Cable

Seal Type

S = Sealed  
D = Dust Proof

Number of gangs

Up to 6  
(2 max. on T style and  
5 max. on S style)

Detent (D style only)

Omit = No Detent  
1 = Center Detent  
2 = 11 Detents  
3 = 21 Detents

Bushing and Shaft size

A = 3.2mm shaft  
B = 6.35mm shaft  
(See Note 1)

Total Resistance  
See Resistance Table below

Resistance Taper  
A = Audio (15A)

B = Linear (1B)  
C = Reverse Audio (15C)

D = Audio (10A)  
(See Note 4)

Full CCW Position  
(See Note 3)

Shaft Length code  
(See Note 2)

Shaft type  
S = Slotted  
F = Flattened  
(See Note 2)

Resistance table											
Resistance	500 <sup>1</sup>	1,000 <sup>1</sup>	2,000	5,000	10,000	20,000	50,000	100,000	200,000	500,000	1,000,000
Code	500	1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG

<sup>1</sup> Available in B taper only

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## P260 / P261 Series

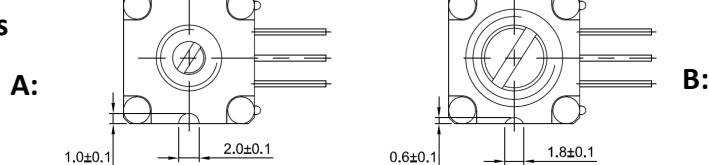


### Outline Drawings

#### Note 1: Bushing and Shaft Combinations

CODE	BUSHING SIZE	BUSHING LENGTH "M"	SHAFT Ø	ANTI-ROTATION LUG (mm)
A	6.35mm (1/4")	6.35mm (1/4")	3.2mm (1/8")	2.0±0.1 x 1.0±0.1 x 1.0 TALL
B	9.5mm (3/8")	9.5mm (3/8")	6.35mm (1/4")	1.8±0.1 x 0.6±0.1 x 1.0 TALL

#### Anti-Rotation Lug Sizes



#### Note 2: Shaft Type and Shaft Length "L" Code For 3.2mm (1/8")

S-TYPE		F-TYPE	
$L \pm 0.5$	$0.8$	$L \pm 0.5$	$0.8$
$M$	$0.8$	$M$	$2.4$
$\phi 3.2 \pm 0.05$		$\phi 3.2 \pm 0.05$	

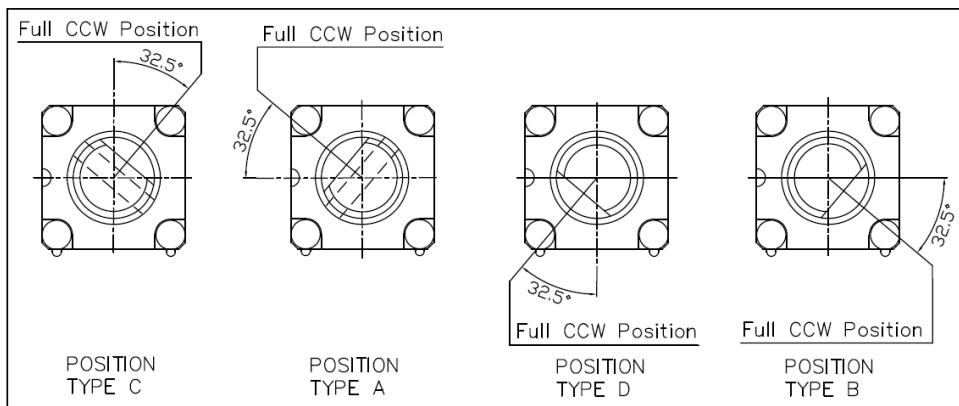
L	20	24	28	32		
L	12	16	20	24	28	32
CODE	1	2	3	4	5	6
CODE	3	4	5	6		

#### Shaft Type and Shaft Length "L" Code For 6.35mm (1/4")

S-TYPE		F-TYPE	
$L \pm 0.5$	$2.0$	$L \pm 0.5$	$5.5$
$M$	$1.2$	$M$	$5.5$
$\phi 6.35 \pm 0.01$		$\phi 6.35 \pm 0.01$	

L	20	24	28	32		
L	12	16	20	24	28	32
CODE	1	2	3	4	5	6
CODE	3	4	5	6		

#### Note 3: Shaft Position (F-Type Shaft) Dashed lines on Type "C" and Type "A" shows position of adjustment slot for S-Type shaft



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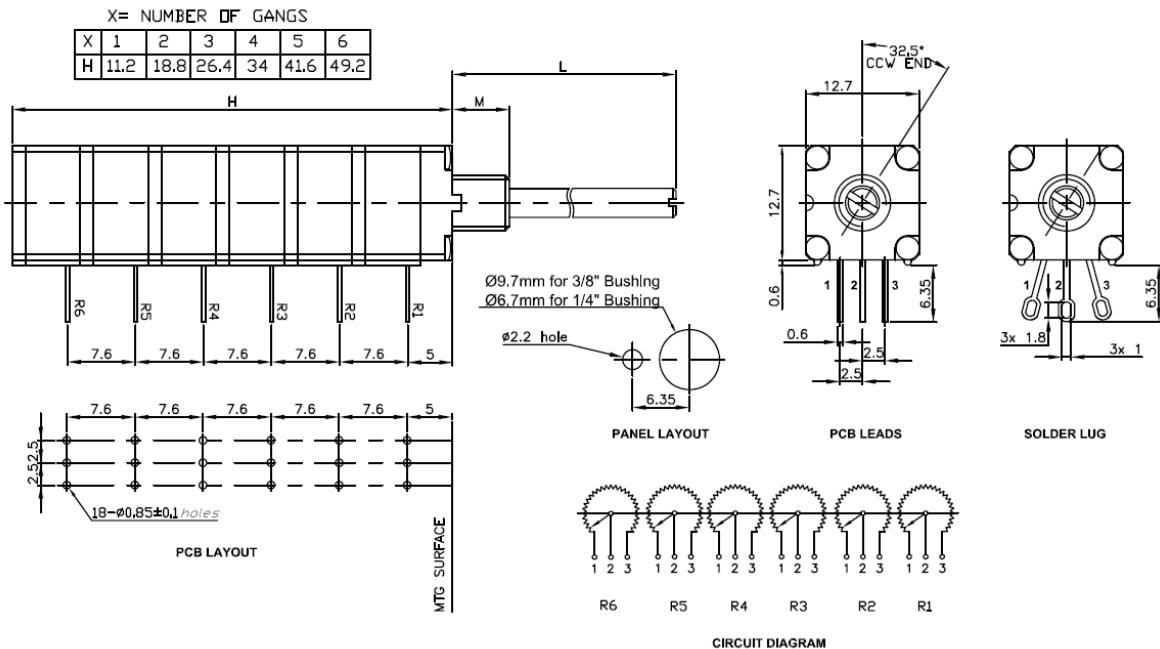
## P260 / P261 Series



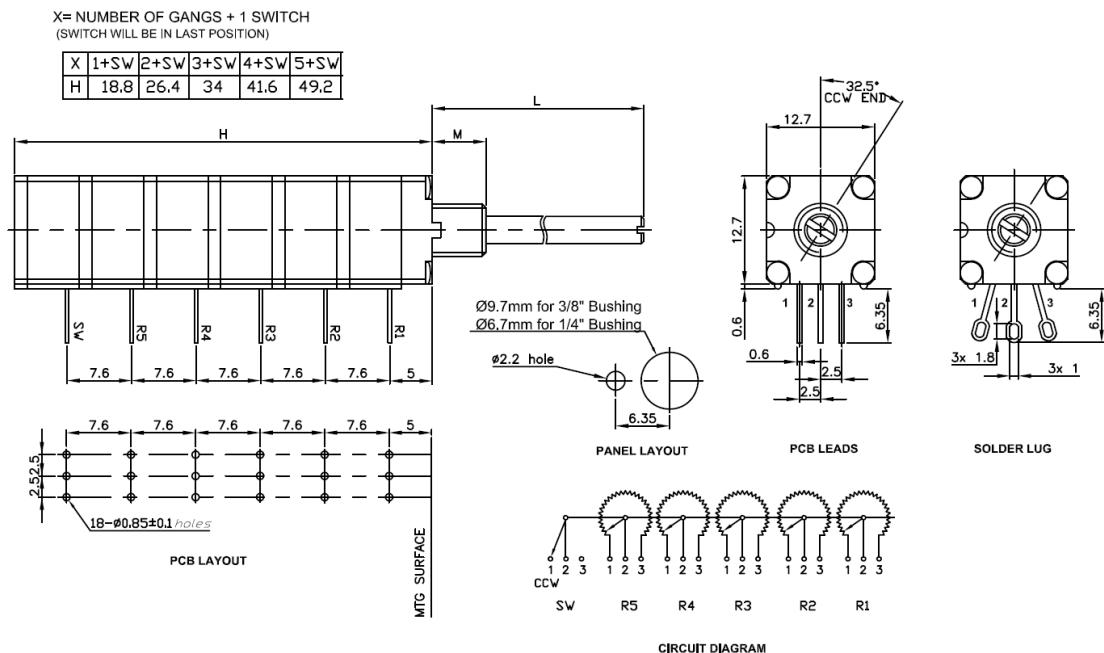
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### Outline Drawings

#### P260P/P261P—POTENTIOMETER MODULE



#### P260S/P261S— WITH ROTARY SWITCH MODULE



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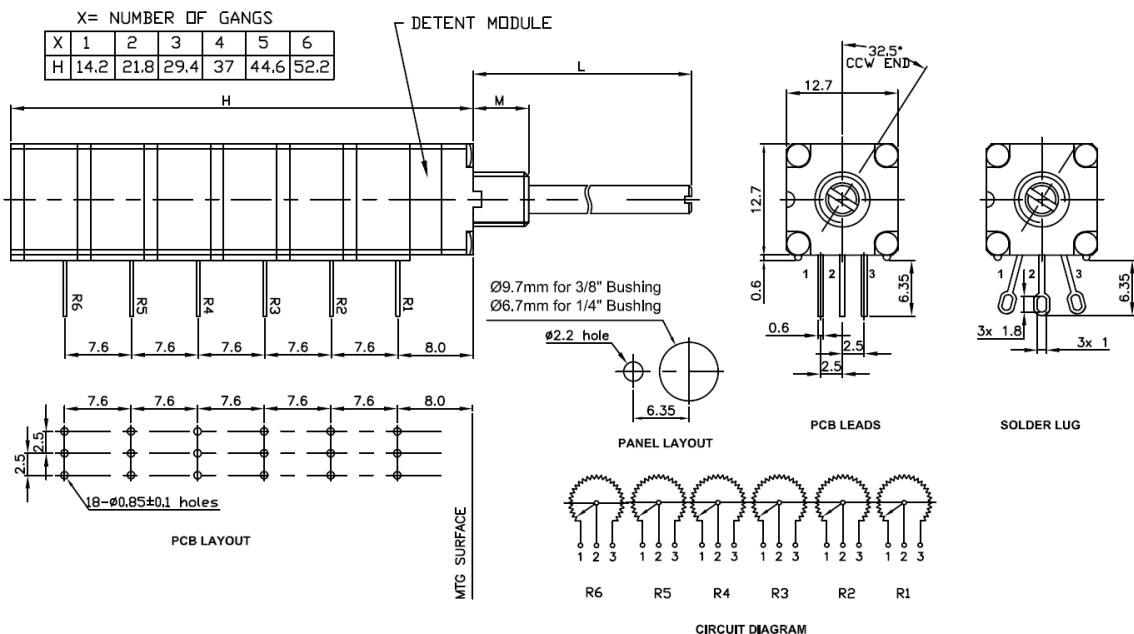
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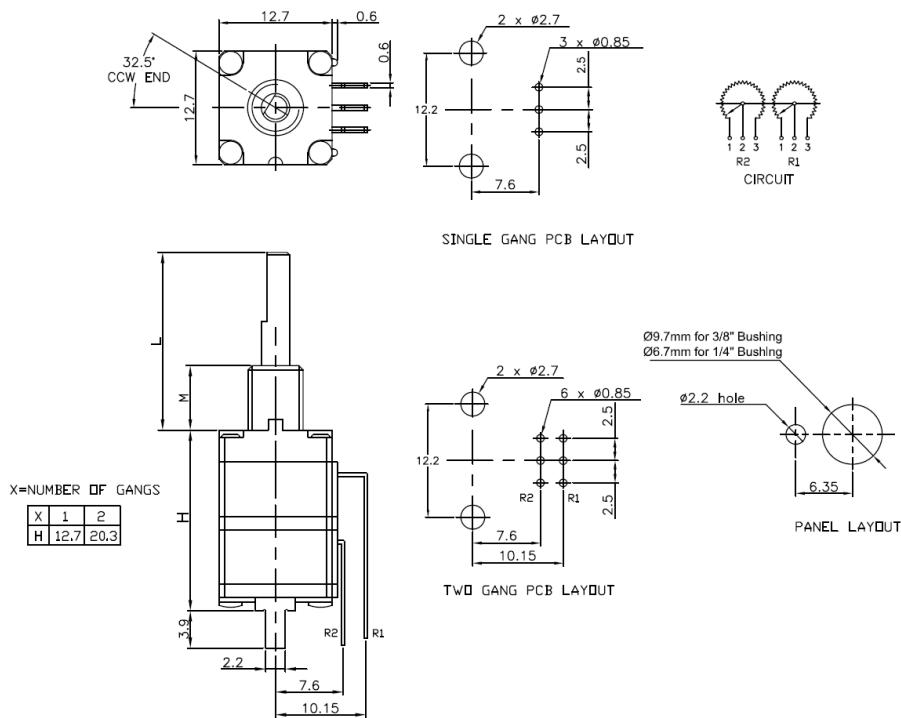


## Outline Drawings

## **P260D/P261D—WITH DETENT MODULE**



## P260T—TOP ADJUST, POTENTIOMETER MODULE



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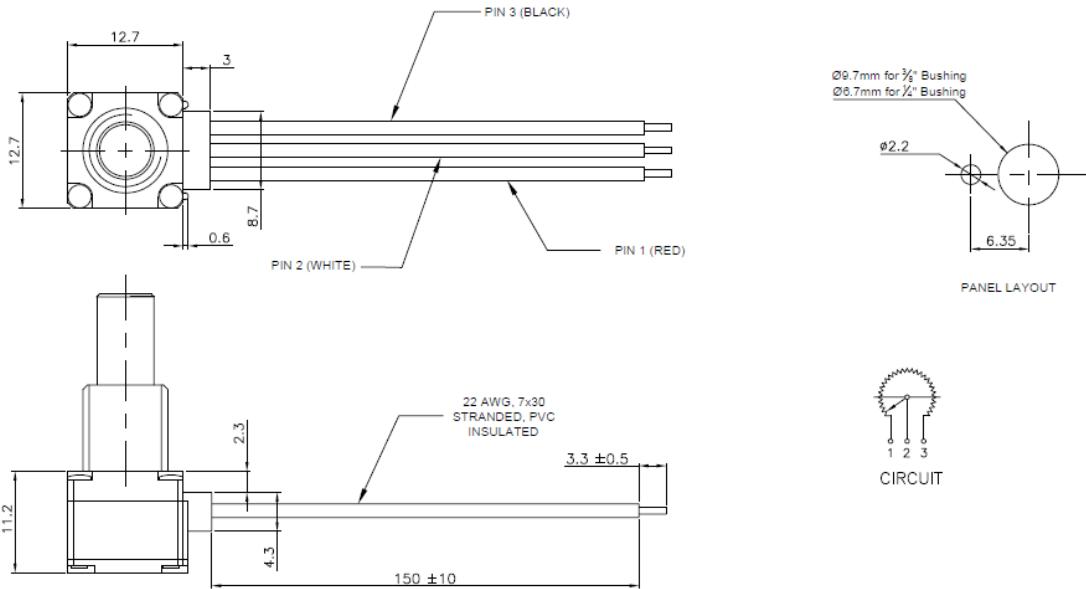
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## P260 / P261 Series



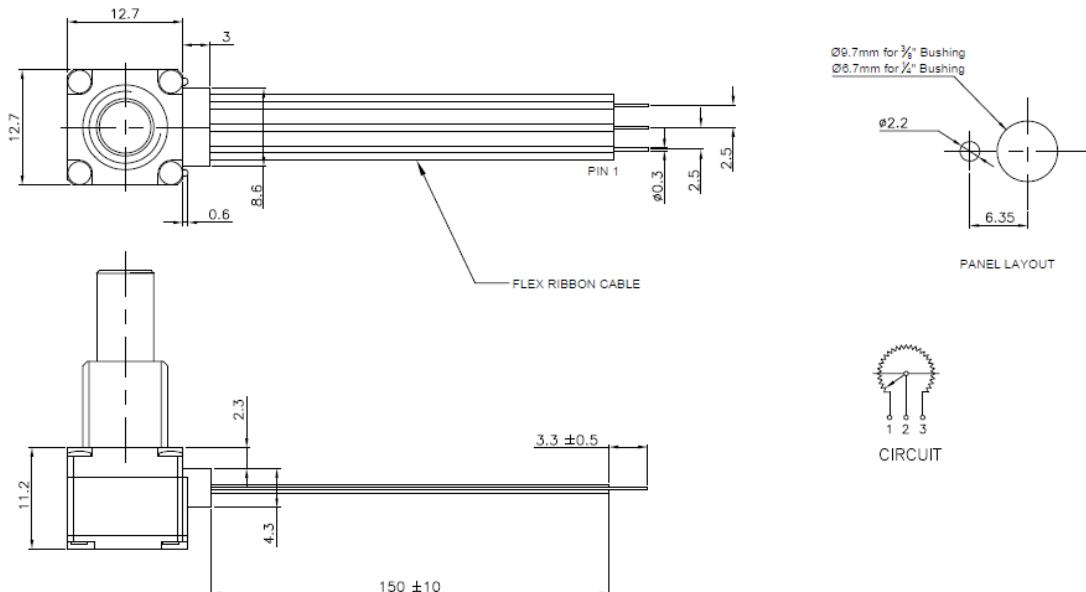
### Outline Drawings

#### P260L - WITH WIRE LEADS



Contact Factory for Custom Options

#### P260R - WITH RIBBON CABLE



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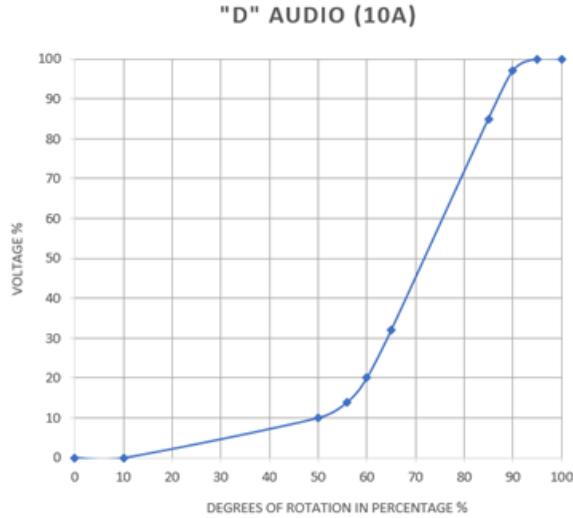
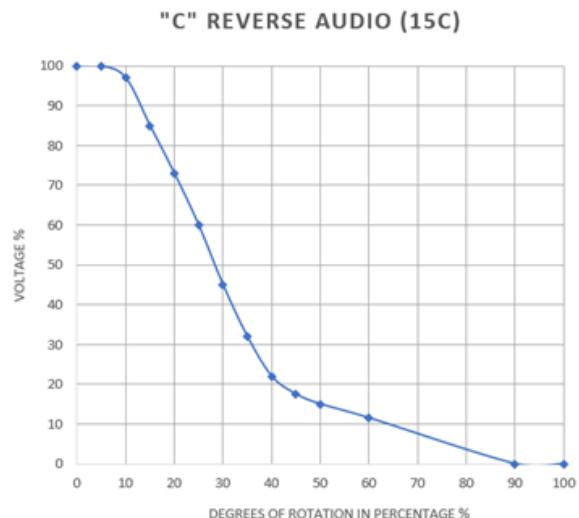
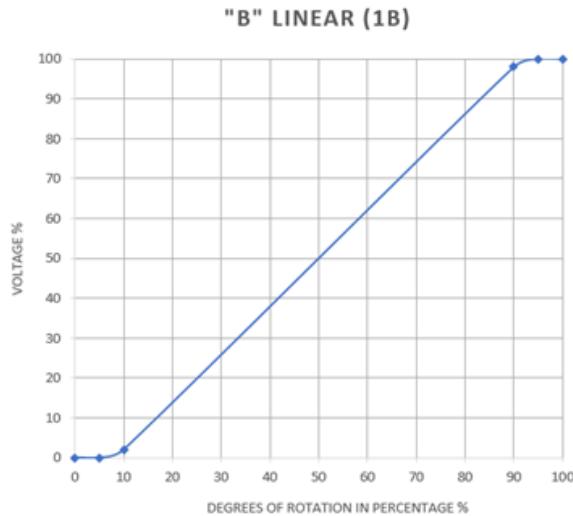
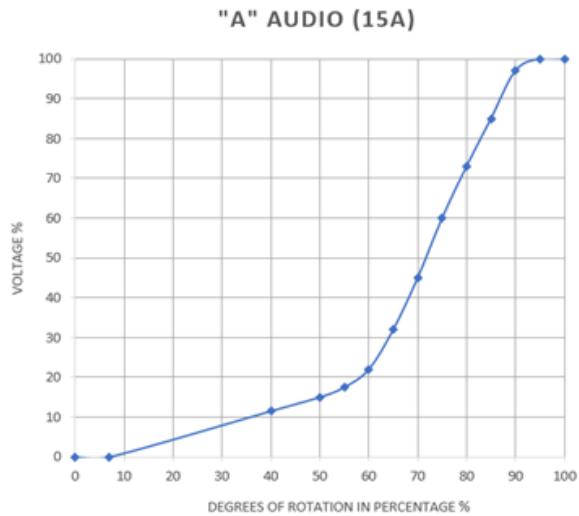
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### Note 4: Standard Tapers



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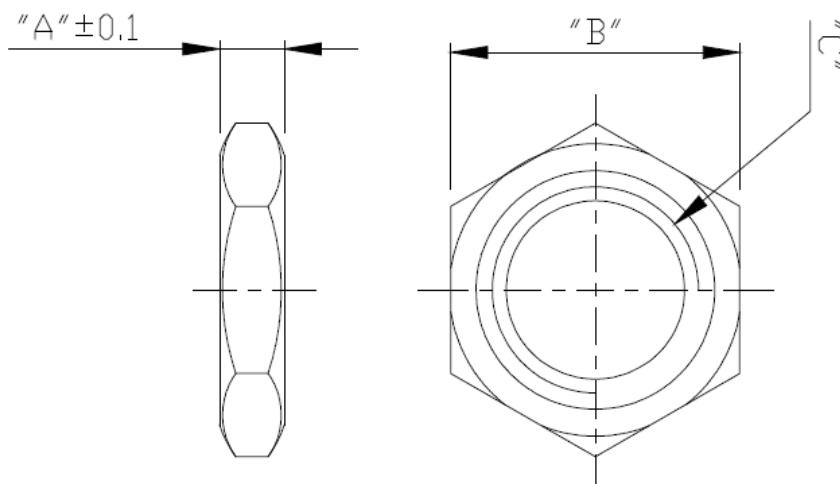
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### Hardware

Mounting Nut				
Bushing Type	Part Number	DIM. "A"	DIM. "B"	DIM. "C" THREAD TYPE
A	34-1032-4A	2.4	12.6 ± 0.05	1/4-32NEF-2A
B	34-1032-1A	2.0	8.9 ± 0.1	3/8-32NEF-2A



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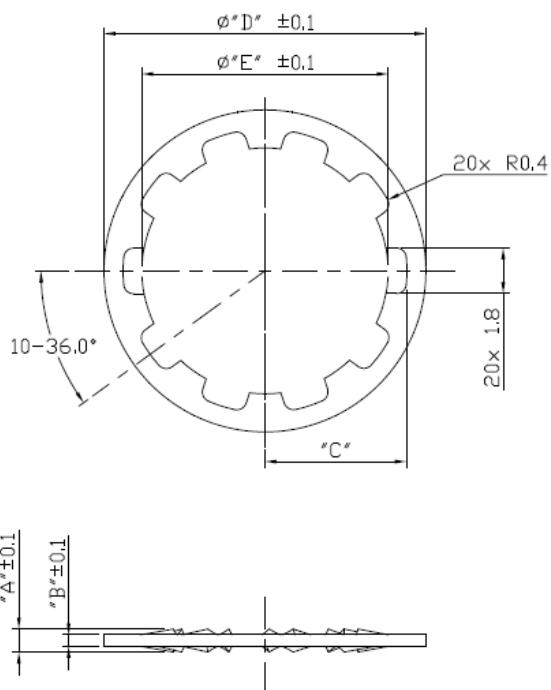
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## P260 / P261 Series



### Hardware

Lockwasher						
Bushing Type	Part Number	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
A	34-1033-3A	1.1	.55	4.2	10.9	6.5
B	34-1033-1A	1.1	0.55	5.6	12.7	9.7



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### Hardware

Flat Washer				
Bushing Type	Part Number	DIM. "A"	DIM. "B"	DIM. "C"
B	34-1034-3A	0.4 ± 0.05	13 ± 0.1	8.1 +0.1/-0

