

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_A = 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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Switch Characteristics

T_A = 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_A = 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_A = 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	Please refer to TT Electronics Website
REACH	Please refer to TT Electronics Website

Packaging

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

General Note

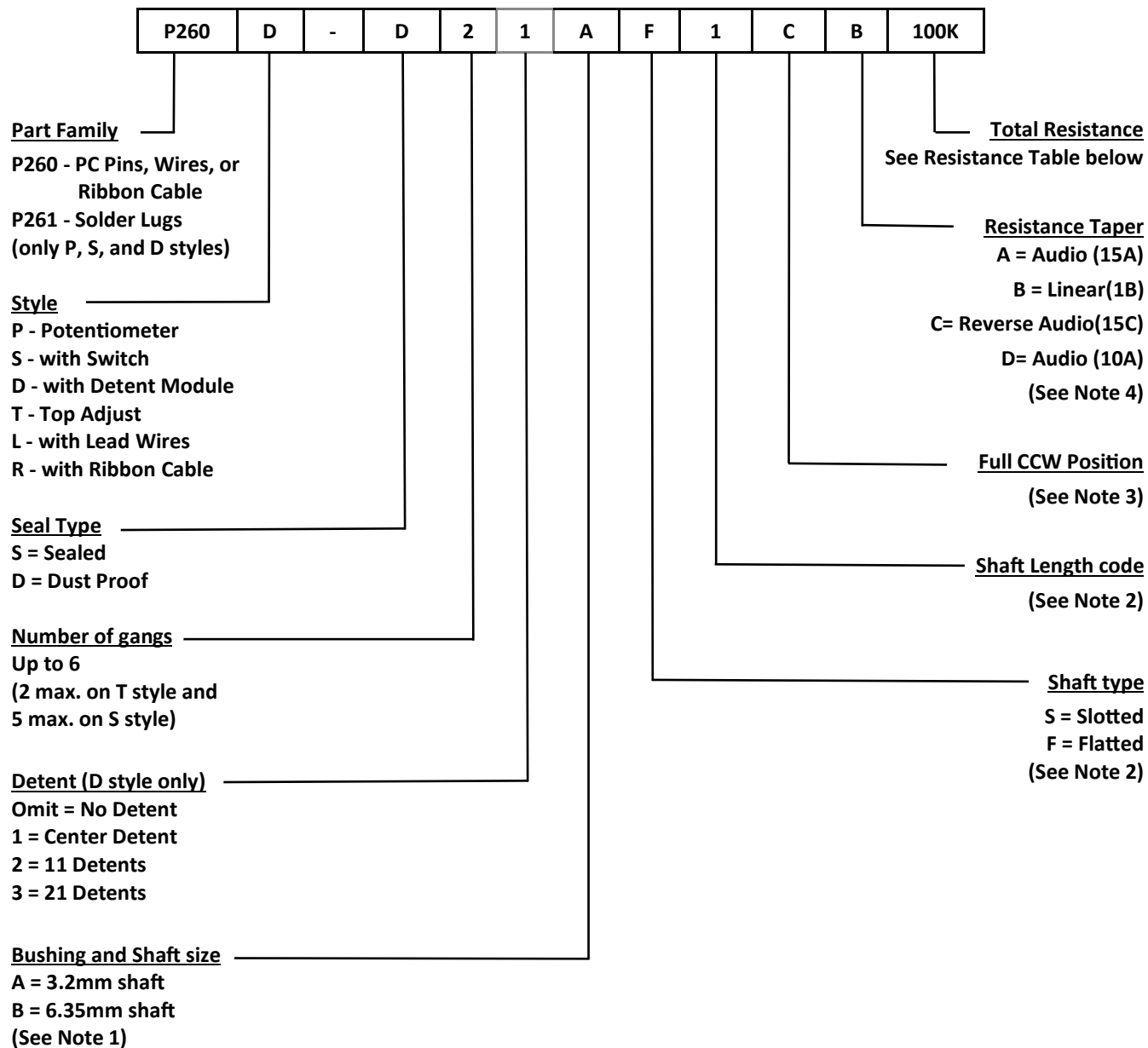
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Ordering Information



Resistance table											
Resistance	500 ¹	1,000 ¹	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

¹ Available in B taper only

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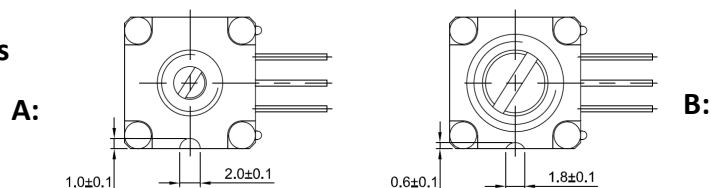
Outline Drawings

Note 1:

Bushing and Shaft Combinations

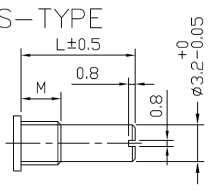
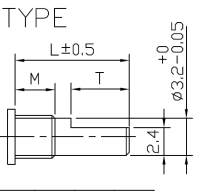
CODE	BUSHING SIZE	BUSHING LENGTH "M"	SHAFT ϕ	ANTI-ROTATION LUG (mm)
A	6.35mm (1/4")	6.35mm (1/4")	3.2mm (1/8")	2.0 \pm 0.1 x 1.0 \pm 0.1 x 1.0 TALL
B	9.5mm (3/8")	9.5mm (3/8")	6.35mm (1/4")	1.8 \pm 0.1 x 0.6 \pm 0.1 x 1.0 TALL

Anti-Rotation Lug Sizes

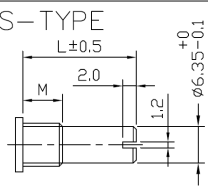
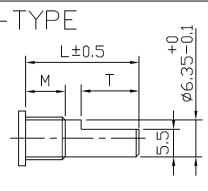


Note 2:

Shaft Type and Shaft Length "L" Code For 3.2mm (1/8")

S-TYPE							F-TYPE				
											
L	12	16	20	24	28	32	L	20	24	28	32
T	8	8	8	8	8	8	T	8	8	8	10
CODE	1	2	3	4	5	6	CODE	3	4	5	6

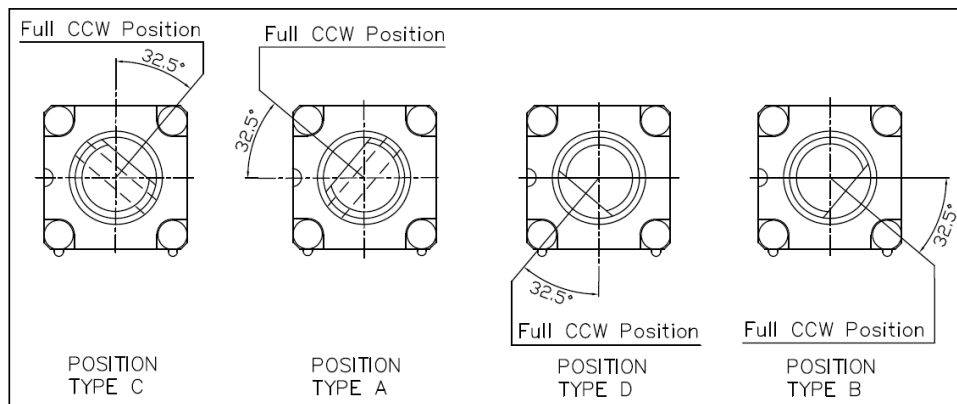
Shaft Type and Shaft Length "L" Code For 6.35mm (1/4")

S-TYPE							F-TYPE				
											
L	12	16	20	24	28	32	L	20	24	28	32
T	8	8	8	12	12	12	T	8	8	12	12
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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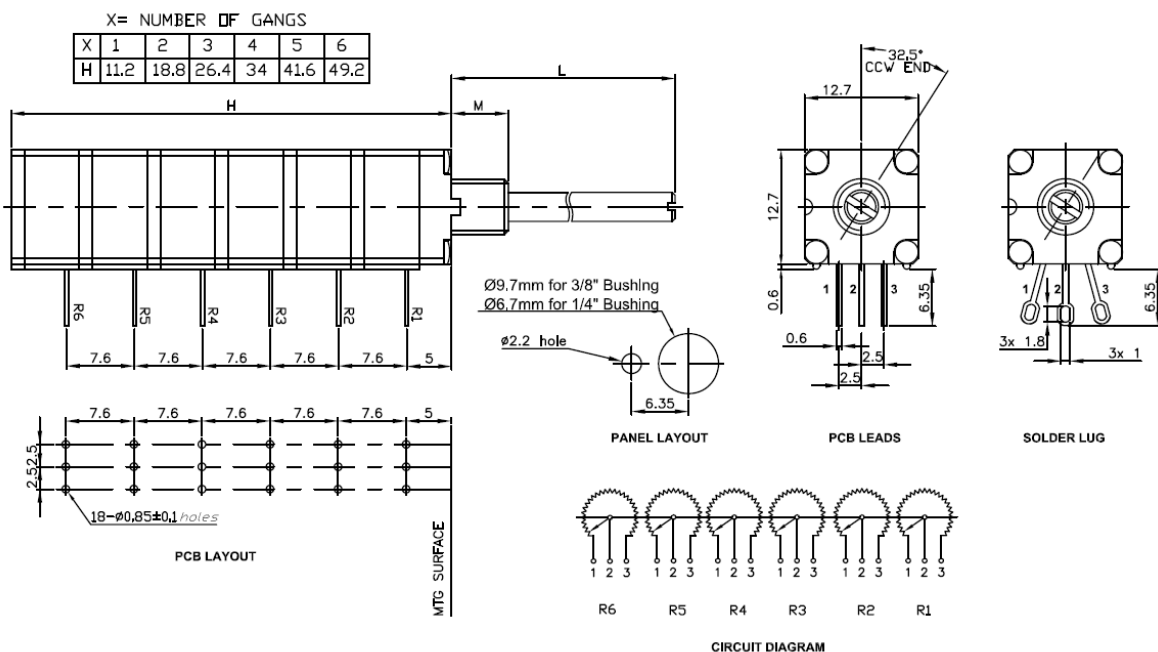
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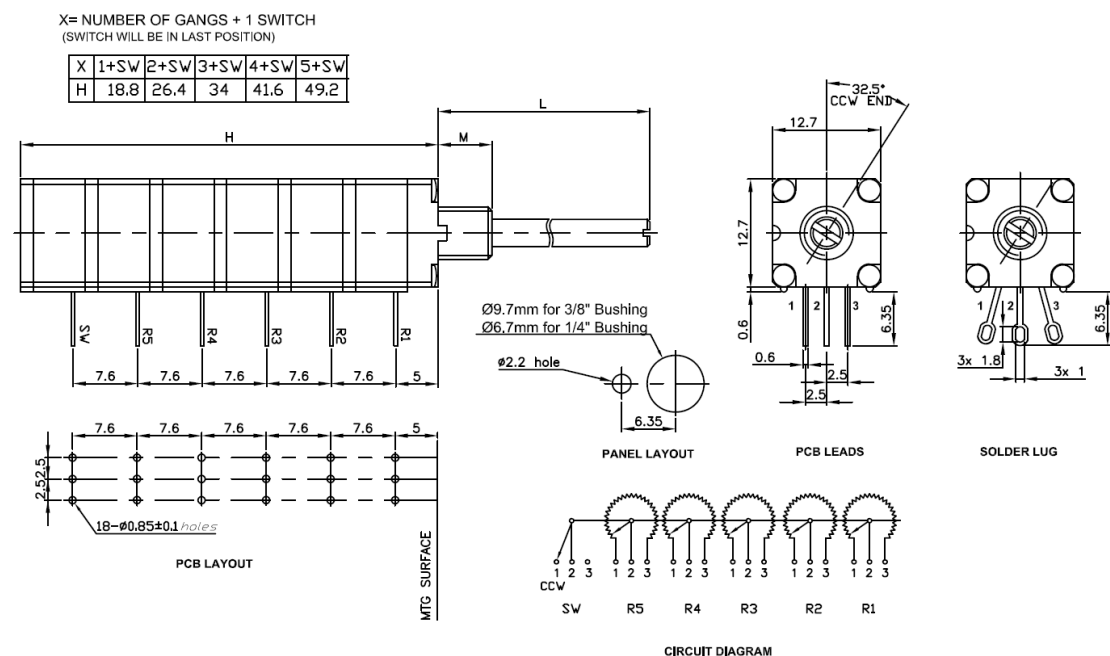
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Outline Drawings

P260P/P261P—POTENTIOMETER MODULE



P260S/P261S— WITH ROTARY SWITCH MODULE



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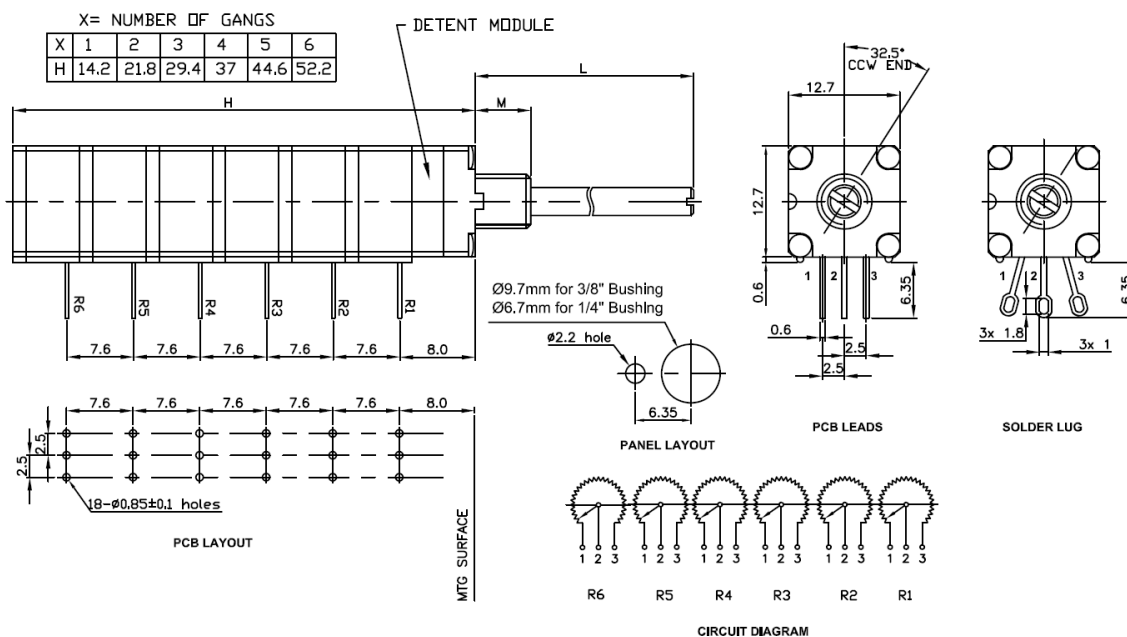
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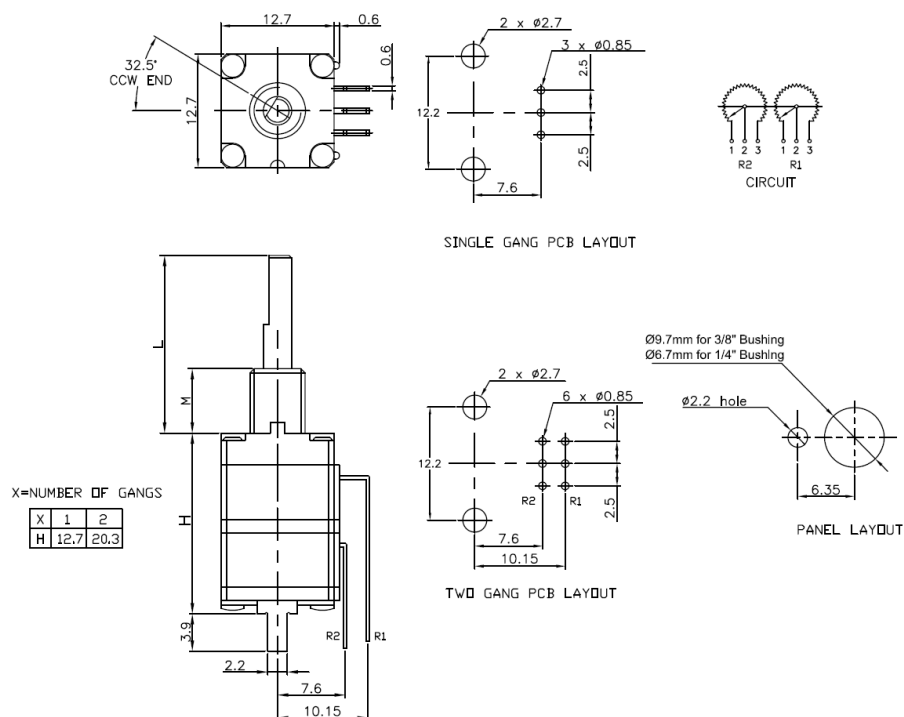
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Outline Drawings

P260D/P261D—WITH DETENT MODULE



P260T—TOP ADJUST, POTENTIOMETER MODULE



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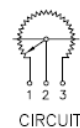
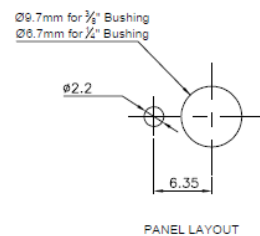
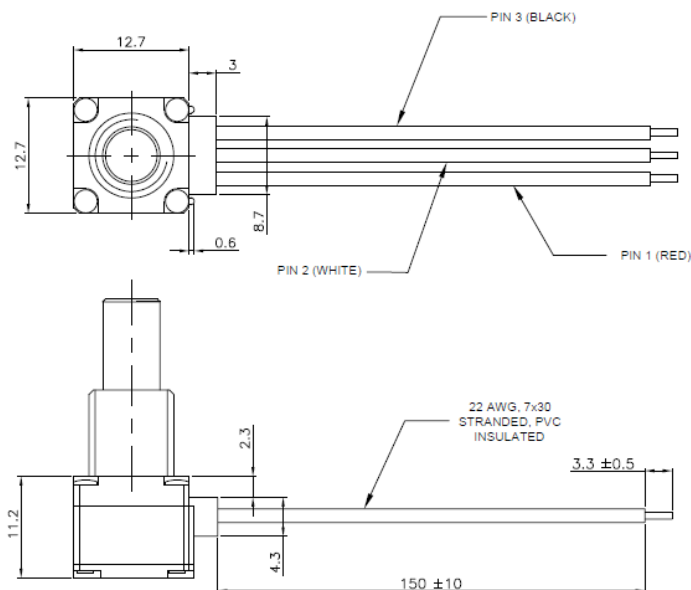
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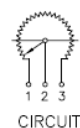
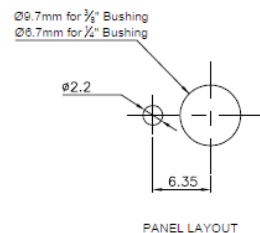
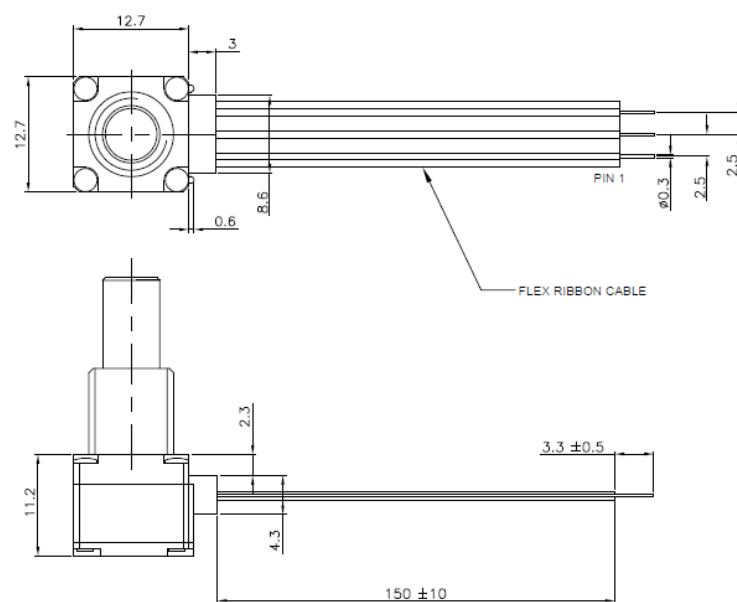
Outline Drawings

P260L - WITH WIRE LEADS



Contact Factory for Custom Options

P260R - WITH RIBBON CABLE



Contact Factory for Custom Options

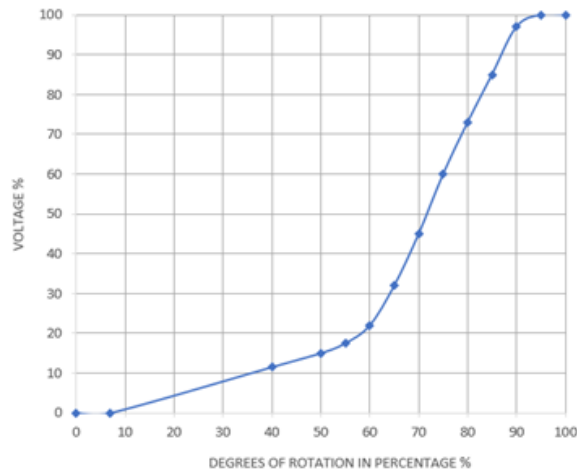
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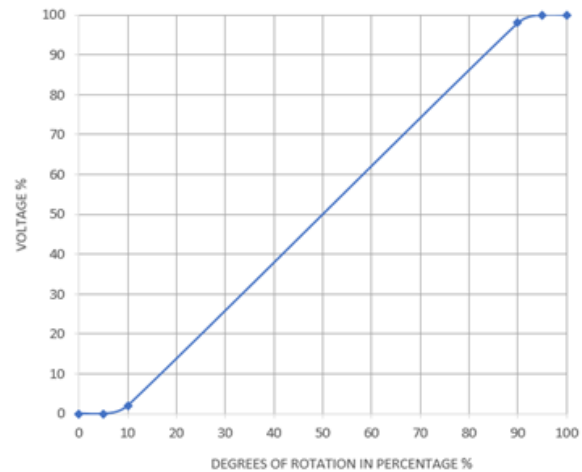
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Note 4: Standard Tapers

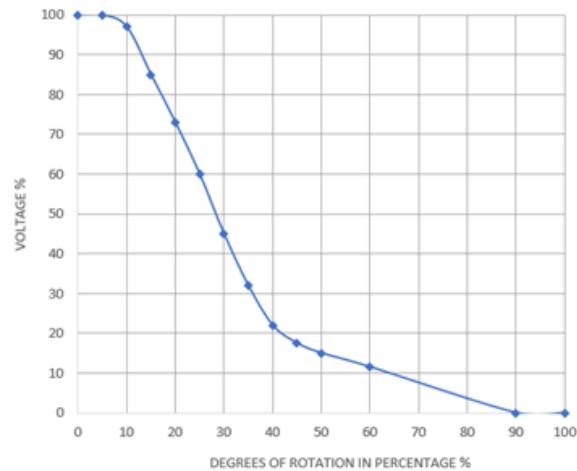
"A" AUDIO (15A)



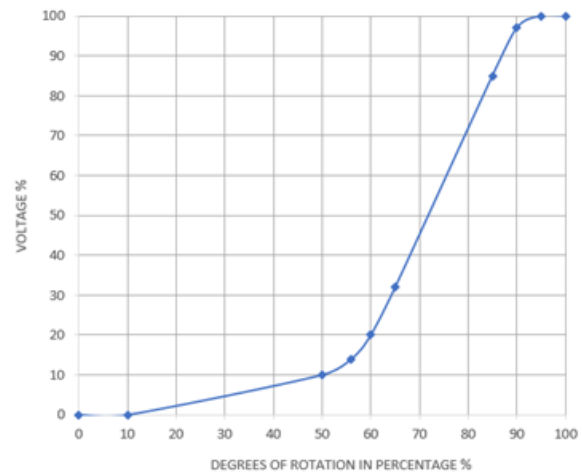
"B" LINEAR (1B)



"C" REVERSE AUDIO (15C)



"D" AUDIO (10A)



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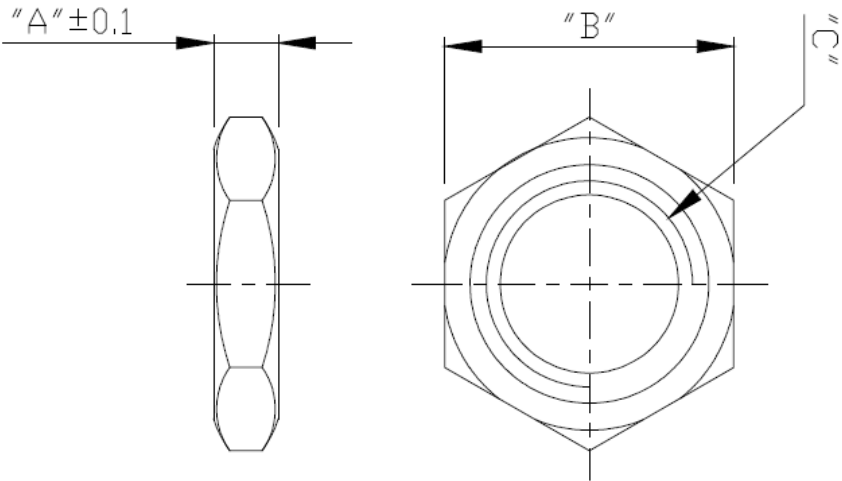
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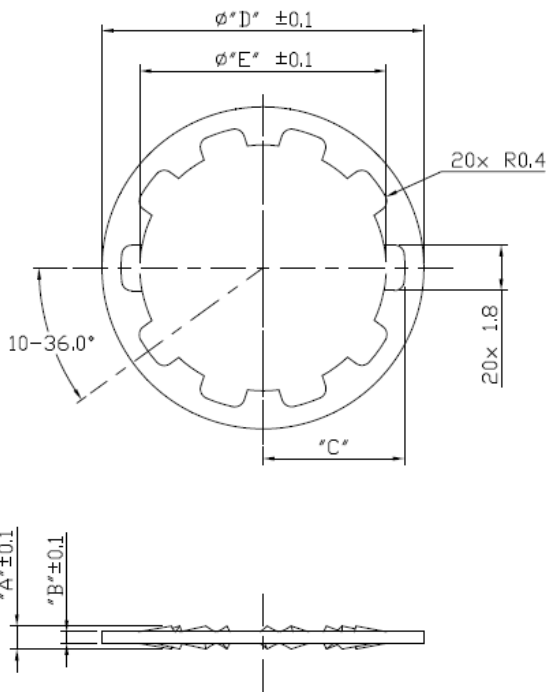
Hardware

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



Hardware

Lockwasher						
Bushing Type	Part Number	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
A	34-1033-3A	1.1	.055	4.2	10.9	6.5
B	34-1033-1A	1.1	0.55	5.6	12.7	9.7



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

