Panel Potentiometer

P260 / P261 Series

TT Electronics PRO AUDIO

TT Electronics

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**

RoHS compliant

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 3
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)

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Switch Characteristics

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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

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Ordering Information

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

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 = Flatted
(See Note 2)

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

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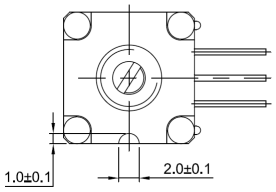
Outline Drawings

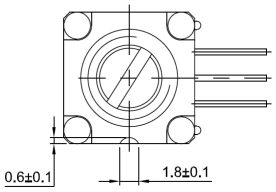
Note 1:
Bushing and Shaft Combinations

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

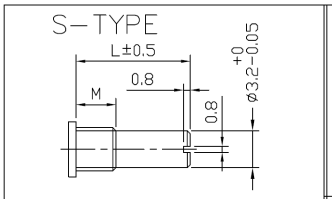
A:

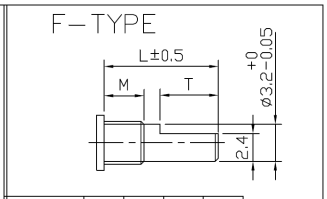




B:

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

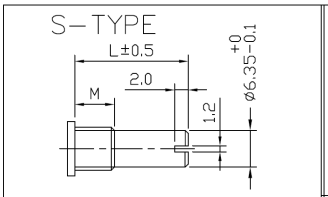


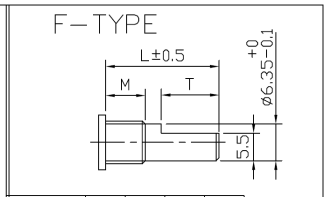


L	12	16	20	24	28	32
CODE	1	2	3	4	5	6

L	20	24	28	32
T	8	8	8	10
CODE	3	4	5	6

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

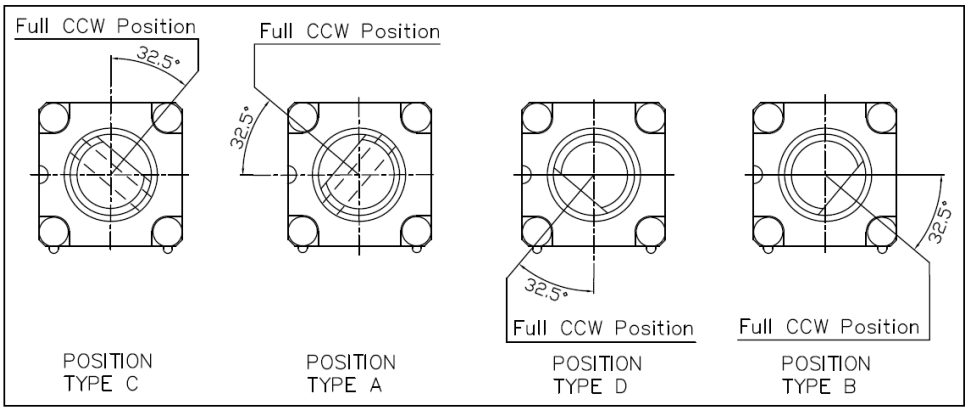




L	12	16	20	24	28	32
CODE	1	2	3	4	5	6

L	20	24	28	32
T	8	8	12	12
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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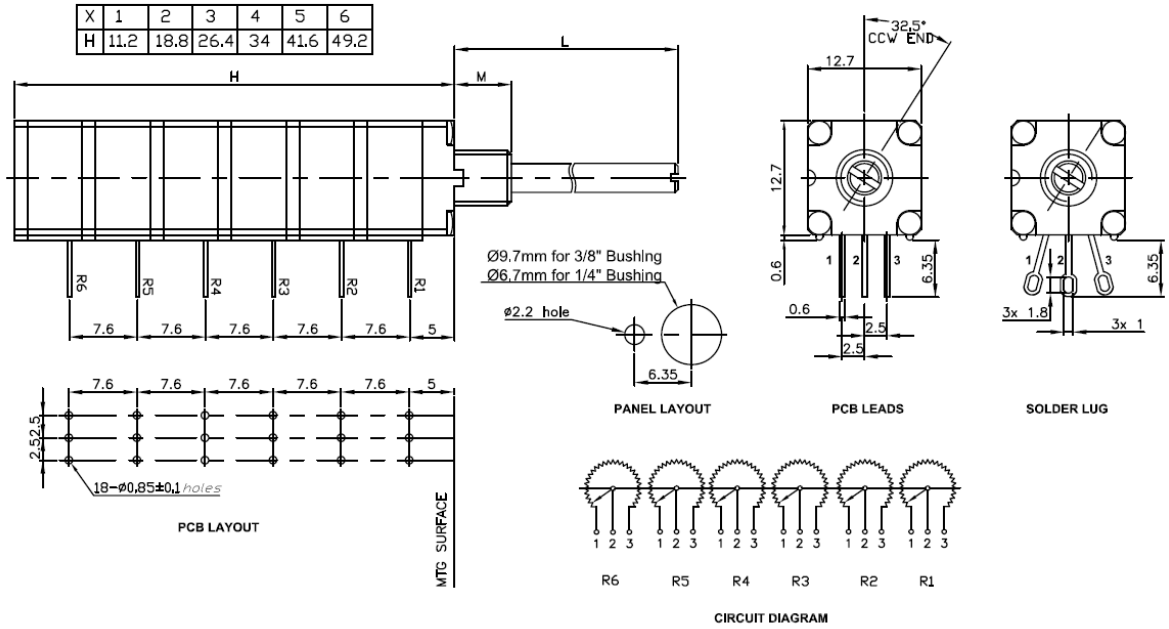
Outline Drawings

P260P/P261P—POTENTIOMETER MODULE

X= NUMBER OF GANGS

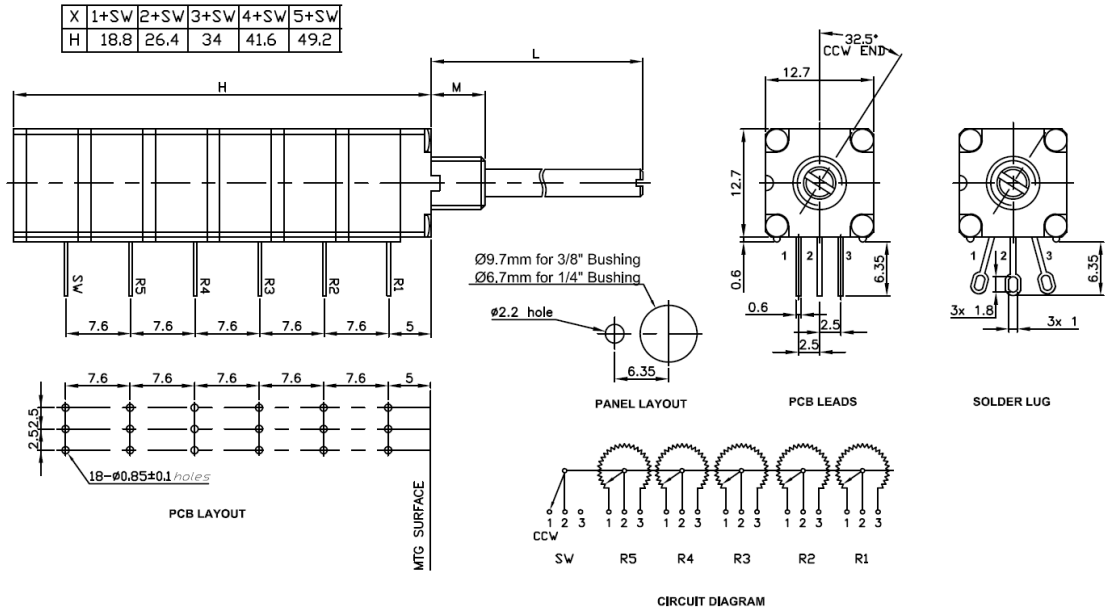
X	1	2	3	4	5	6
H	11.2	18.8	26.4	34	41.6	49.2



P260S/P261S— WITH ROTARY SWITCH MODULE

X= NUMBER OF GANGS + 1 SWITCH
(SWITCH WILL BE IN LAST POSITION)

X	1+SW	2+SW	3+SW	4+SW	5+SW
H	18.8	26.4	34	41.6	49.2



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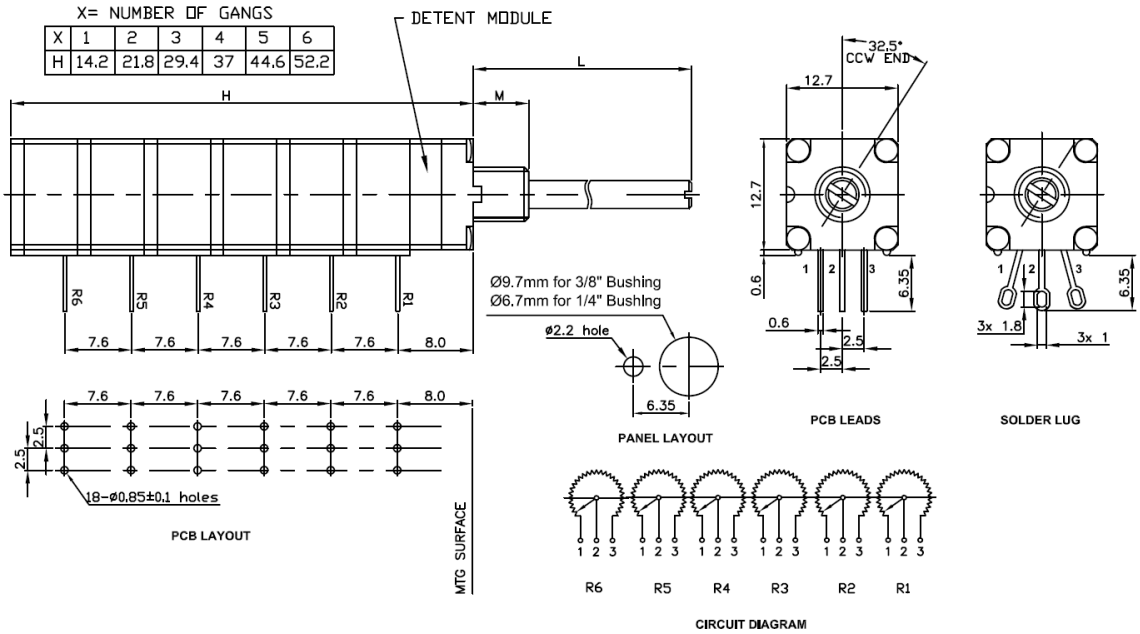
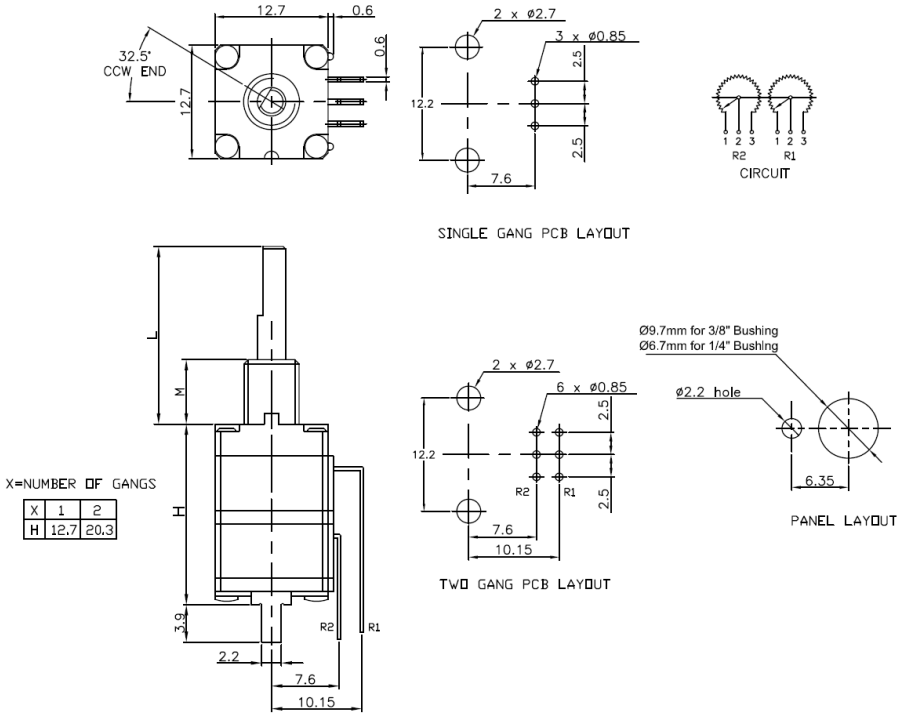
Outline Drawings

P260D/P261D—WITH DETENT MODULE



X	1	2	3	4	5	6
H	14.2	21.8	29.4	37	44.6	52.2

P260T—TOP ADJUST, POTENTIOMETER MODULE



X	1	2
H	12.7	20.3

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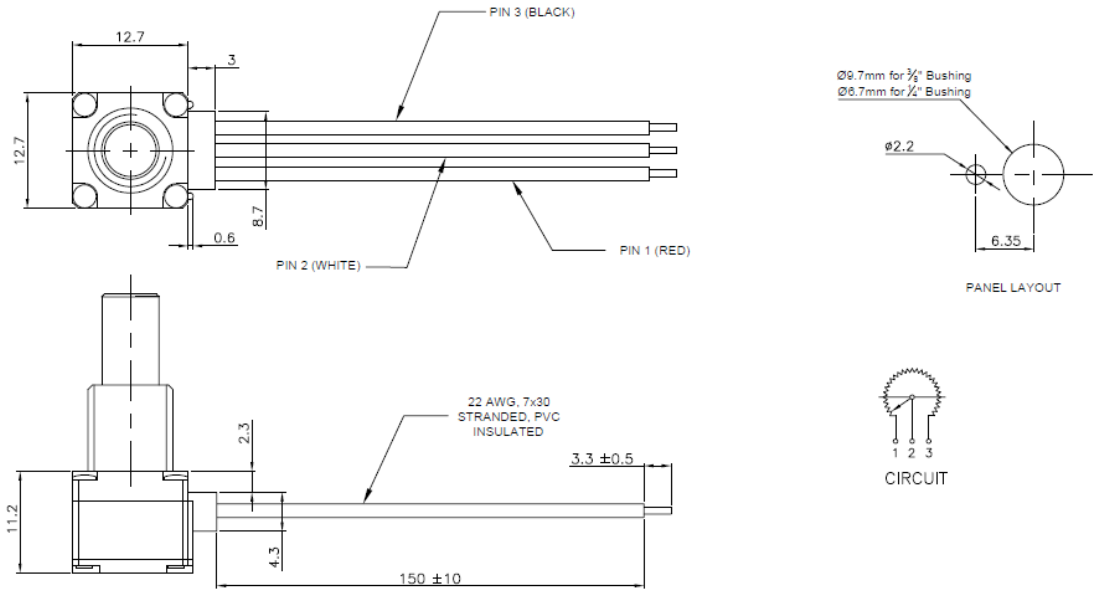
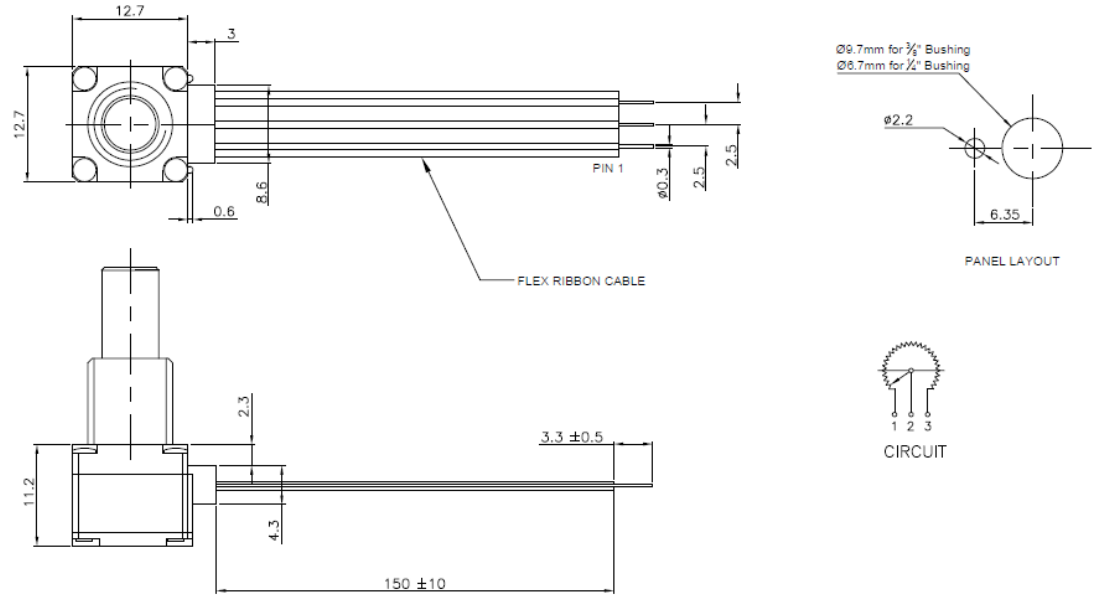
Outline Drawings

P260L - WITH WIRE LEADS



Contact Factory for Custom Options

P260R - WITH RIBBON CABLE



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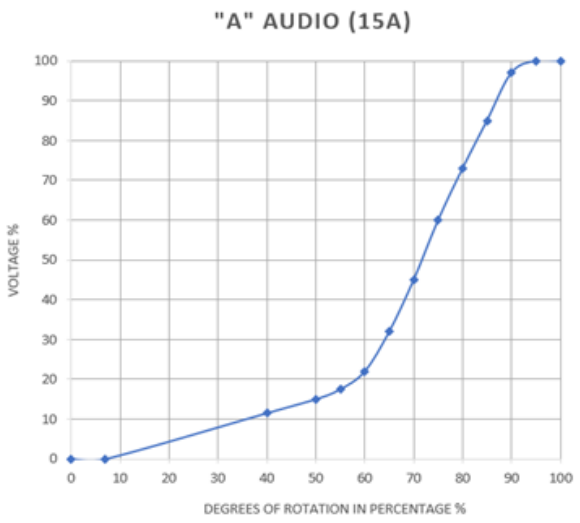
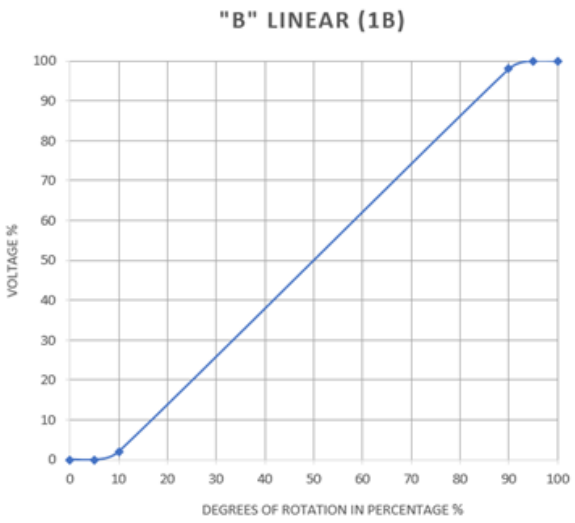
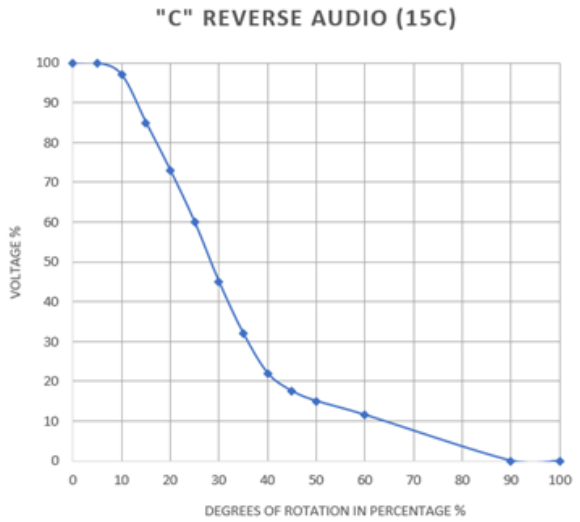
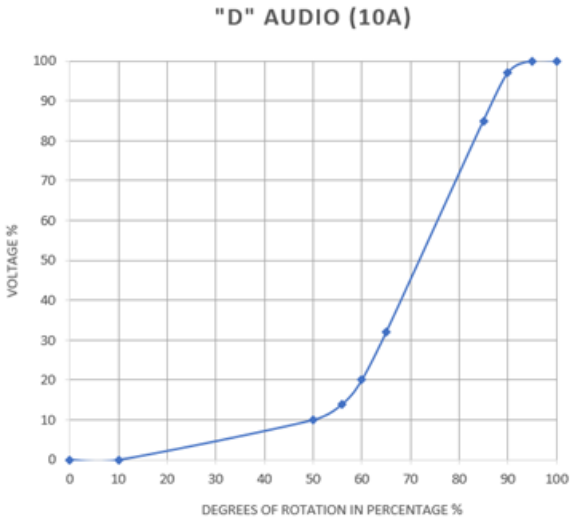
Note 4: Standard Tapers









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