

# Panel Potentiometer

## Model P08x Series



### Features:

- 8 mm square
- Dust proof
- Detent option
- 100,000 cycle life
- Rotary switch option
- Multiple gangs available



### Model Styles Available

Side Adjust, Potentiometer Module (Up to 4 gangs)	P08xN
Side Adjust, Potentiometer with Rotary Switch Module (Up to 4 gangs)	P08xS
Side Adjust, Potentiometer with Dual Shaft Module (2 or 4 gang)	P08xD
Side Adjust, Potentiometer with Dual Shaft and Rotary Switch Module (2 or 4 gang)	P08xE

### Electrical

Resistance Range, Ohms	500 -1M (for "B" taper) 1K-1M (for other tapers)
Standard Resistance Tolerance	± 20%
Residual Resistance, Maximum	50 ohms
Input Voltage, Maximum	50 Vac
Power rating, Watts	0.05W- B taper, 0.025W- others
Dielectric Strength	300Vac, sea level
Insulation Resistance, Minimum	100 Megohms
Gang Error (Multi-ganged), Maximum	+/-3 dB (-40 dB to 0dB)
Actual Electrical Travel, Nominal	With Switch = 230° Without Switch =270°
Switch Contact Resistance, Maximum	100 milliohms max.
Switch Power Rated	3.0A at 16Vdc

### Mechanical

Total Mechanical Travel	300°± 10°
Static Stop Strength	42 oz-in
Rotational Torque, Maximum	0.7 oz-in ( 0.2 oz-in each additional gang)
Switch Detent,	1.0 oz-in
Switch Travel angle	50°

#### General Note

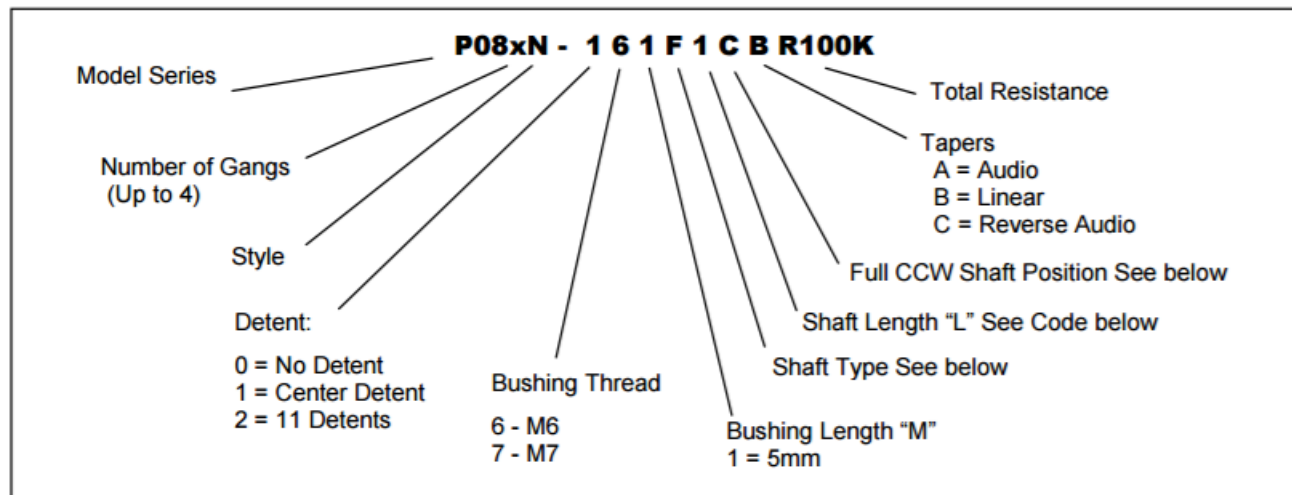
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### Environmental

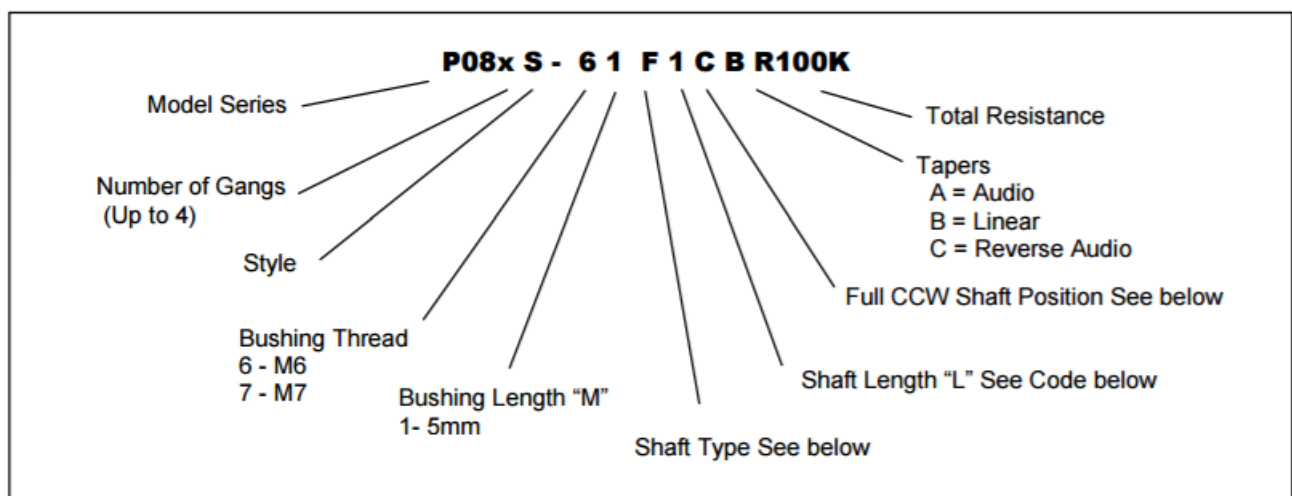
Operating Temperature Range	-55°C to +125°C	
Rotational Life	Switch = 30,000 cycles	Potentiometer = 100,000 cycles
IP Rating	Dust Proof = IP50	

### Ordering

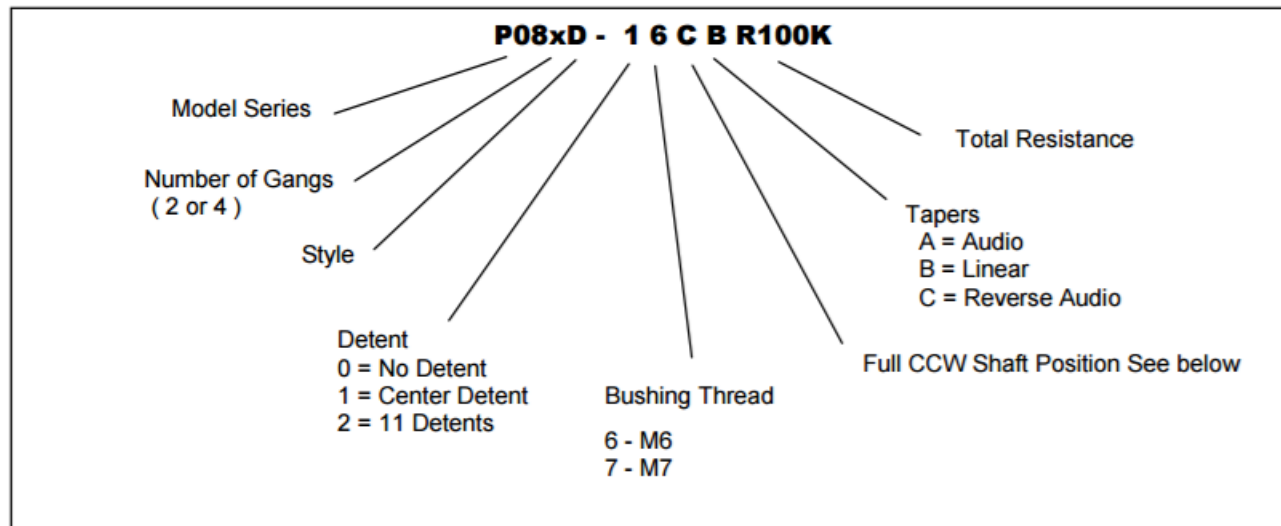
#### P08xN - POTENTIOMETER MODULE



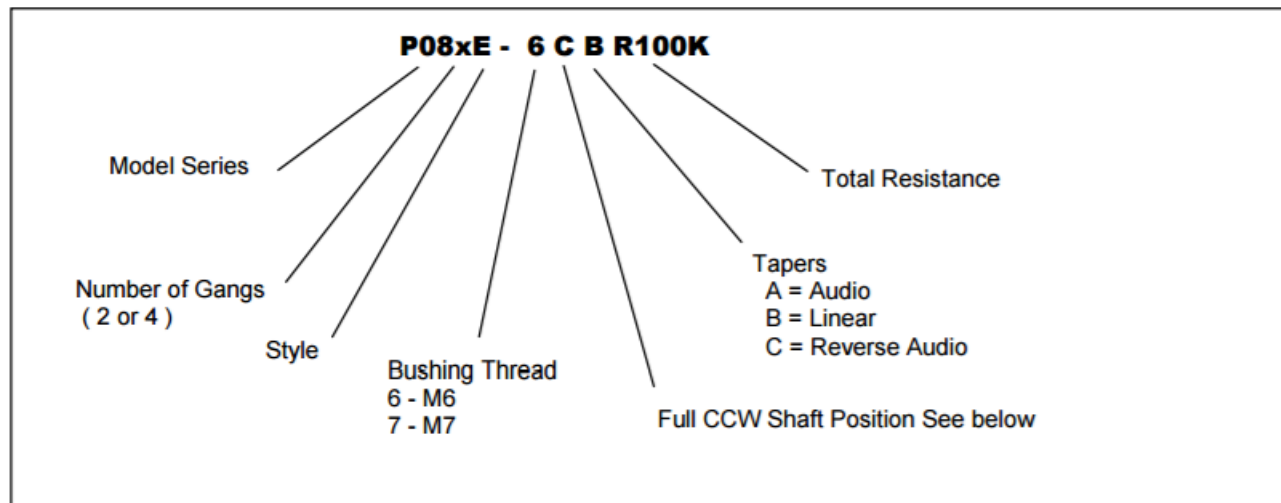
#### P08xS - POTENTIOMETER WITH ROTARY SWITCH MODULE



### P08xD - POTENTIOMETER WITH DUAL SHAFT MODULE



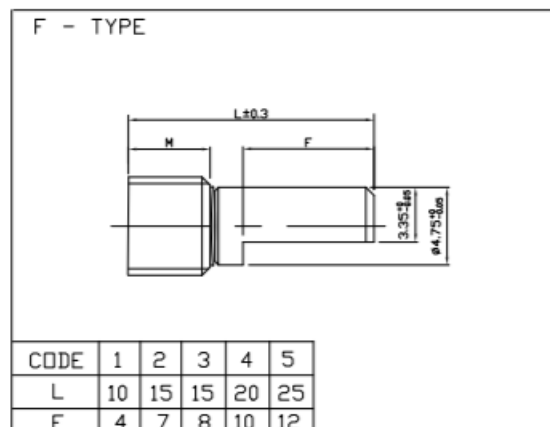
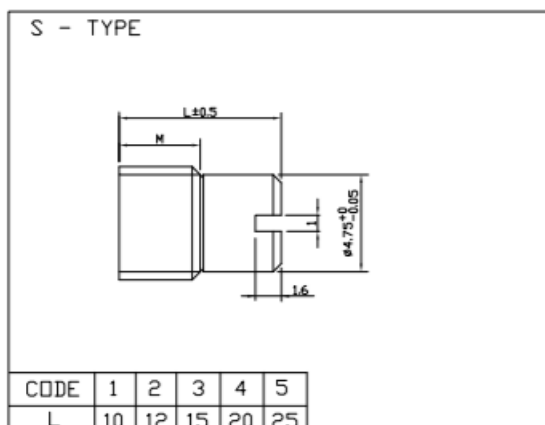
### P08xE - POTENTIOMETER WITH DUAL SHAFT AND ROTARY SWITCH MODULE



#### General Note

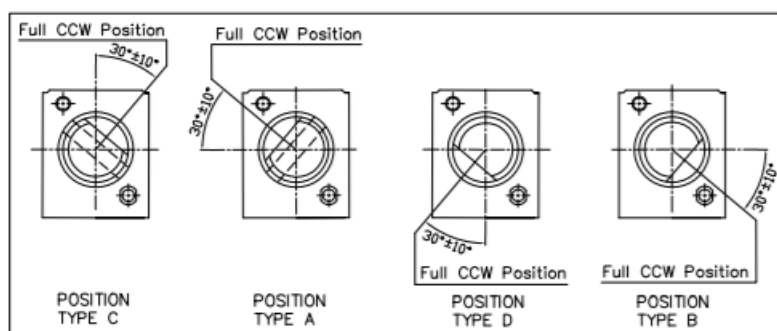
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### Shaft Length "L" Code – For Models P08xN and P08xS only



### Shaft Position (F-Type Shaft)

Dashed lines on Type "C" and Type "A" shows position of adjustment slot for S-Type



### STANDARD RESISTANCE VALUES, OHMS

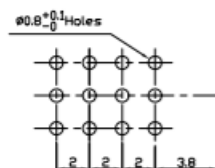
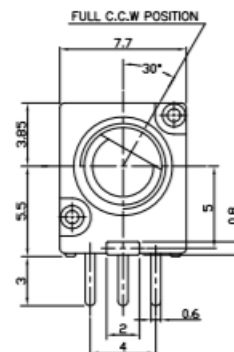
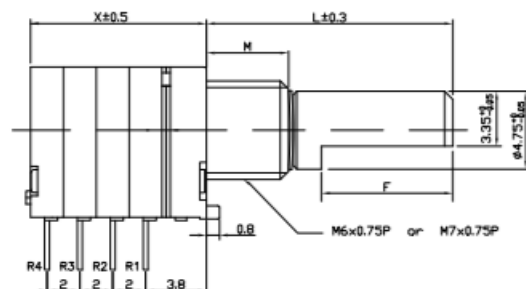
500	1K	2K	5K	10K	20K	50K	100K	200K	500K	1MEG
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#### General Note

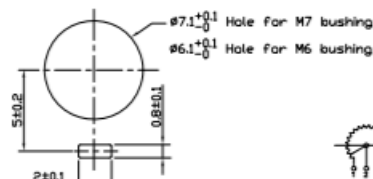
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## P08xN - POTENTIOMETER MODULE

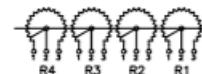
NUMBER OF GANGS	1	2	3	4
X	5	7	9	11



## PCB LAYOUT



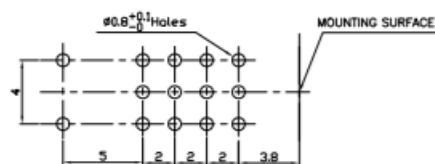
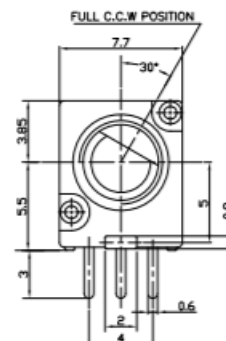
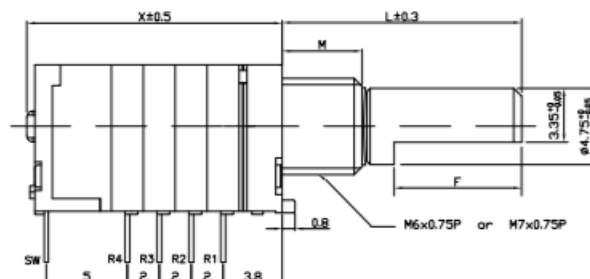
### PANEL LAYOUT



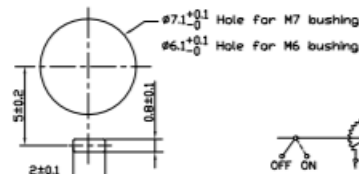
CIRCUIT

### P08xS - POTENTIOMETER WITH ROTARY SWITCH MODULE

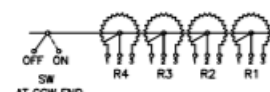
NUMBER OF GANGS	1	2	3	4
X	10	12	14	16



## PCB LAYOUT



### PANEL LAYOUT

CIRCUIT

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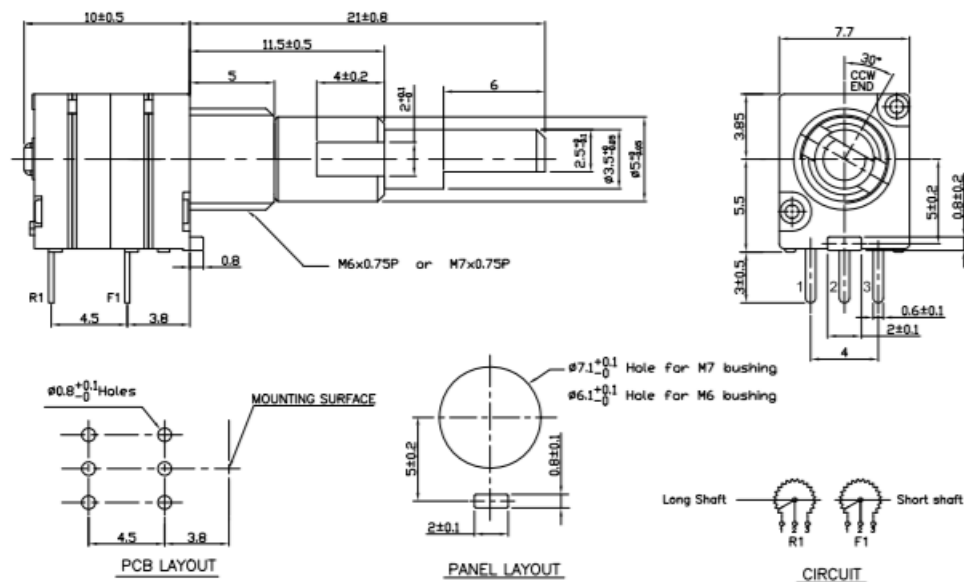
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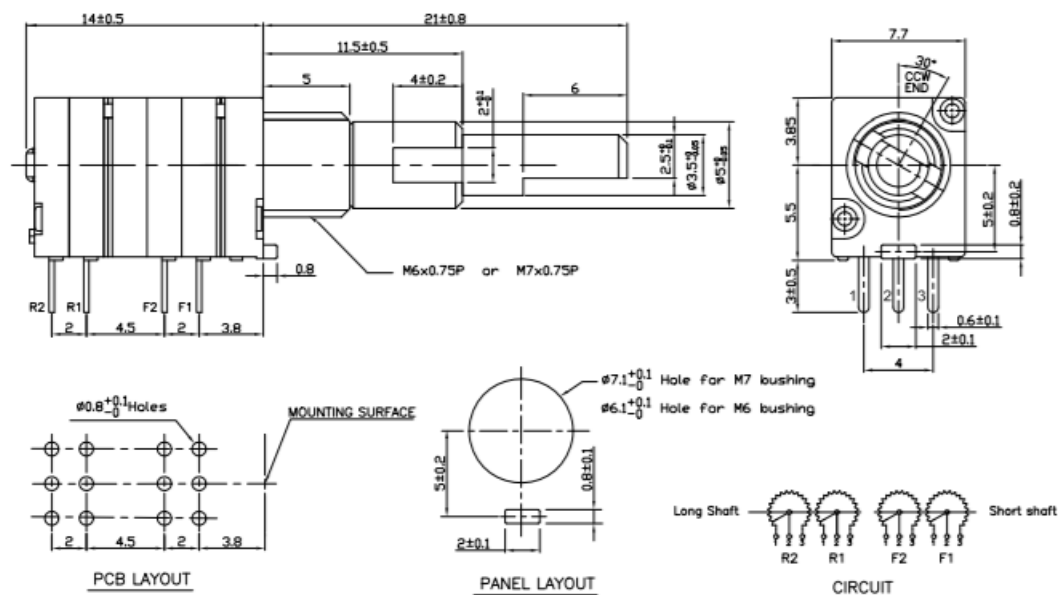
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### P08xD - POTENTIOMETER WITH DUAL SHAFT MODULE

#### 2 GANG

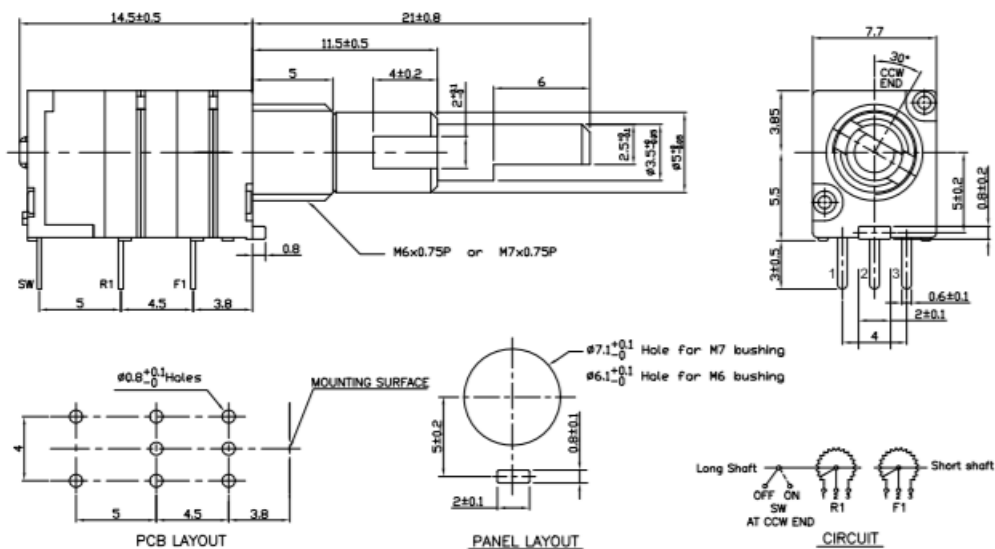


#### 4 GANG

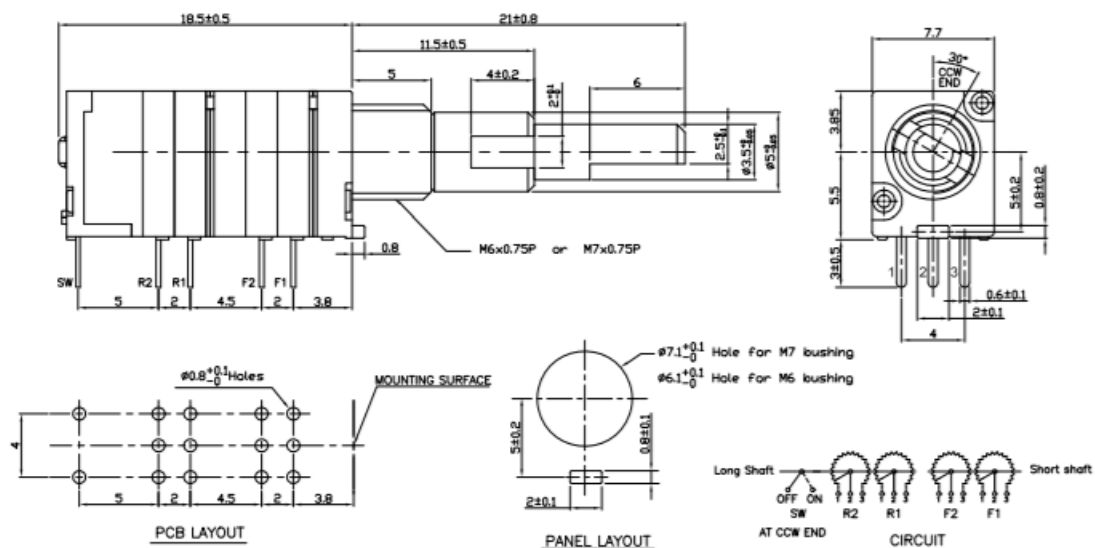


### P08xE - POTENTIOMETER WITH DUAL SHAFT AND ROTARY SWITCH MODULE

#### 2 GANG



#### 4 GANG

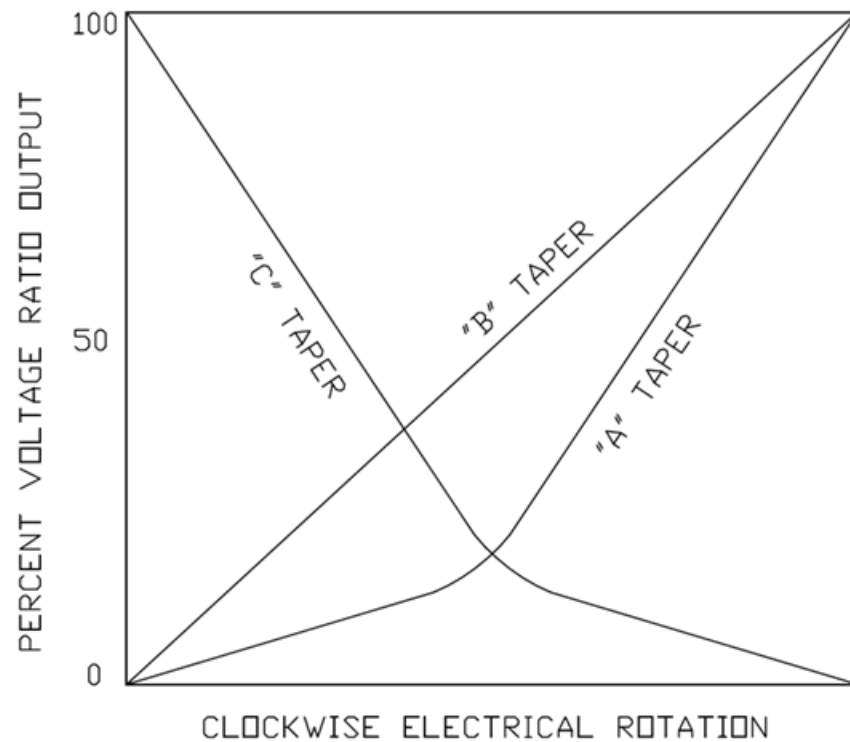


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