

ALPHA 24mm Potentiometers



Mechanical Specifications:

- Total rotation angle 300°±5°
- Rotational torque: 20–200 g-cm
- Carbon composition



RoHS Compliant

Electrical Specifications:

- Rated wattage: Linear taper-1/2W, Audio taper-1/4W
- Rated voltage: Linear taper-500VDC, Audio taper-250VDC
- Insulation resistance: >100MΩ (500VDC)
- Withstanding voltage: 500VAC for 1 minute
- Resistance tolerance: <1M: ±20%, ≥1M: ±30%
- 1/4" shaft diameter

ALPHA SOLDER LUGS

Audio Taper, (.335") Shaft Length*

For quantities 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VJ301-F	A	1K	1.40	1.12	1.02	.94
31VJ305-F	A	5K	1.40	1.12	1.02	.94
31VJ401-F	A	10K	1.40	1.12	1.02	.94
31VJ405-F	A	50K	1.40	1.12	1.02	.94
31VJ501-F	A	100K	1.40	1.12	1.02	.94
31VJ505-F	A	500K	1.40	1.12	1.02	.94
31VJ601-F	A	1M	1.40	1.12	1.02	.94

Linear Taper, (.335") Shaft Length*

MOUSER STOCK NO.	A	Value (Ω)	Price Each			
			1	10	100	500
31VA205-F	A	500	1.40	1.12	1.02	.94
31VA301-F	A	1K	1.40	1.12	1.02	.94
31VA302-F	A	2K	1.40	1.12	1.02	.94
31VA303-F	A	2.5K	1.40	1.12	1.02	.94
31VA305-F	A	5K	1.40	1.12	1.02	.94
31VA401-F	A	10K	1.40	1.12	1.02	.94
31VA403-F	A	25K	1.40	1.12	1.02	.94
31VA405-F	A	50K	1.40	1.12	1.02	.94
31VA501-F	A	100K	1.40	1.12	1.02	.94
31VA503-F	A	250K	1.40	1.12	1.02	.94
31VA505-F	A	500K	1.40	1.12	1.02	.94
31VA601-F	A	1M	1.40	1.12	1.02	.94
31VA602-F	A	2M	1.40	1.12	1.02	.94
31VA605-F	A	5M	1.40	1.12	1.02	.94

Linear Taper, (1.32") Shaft Length*

For quantities 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VC205-F	A	500	1.40	1.12	1.02	.94
31VC301-F	A	1K	1.40	1.12	1.02	.94
31VC302-F	A	2K	1.40	1.12	1.02	.94
31VC303-F	A	2.5K	1.40	1.12	1.02	.94
31VC305-F	A	5K	1.40	1.12	1.02	.94
31VC401-F	A	10K	1.40	1.12	1.02	.94
31VC403-F	A	25K	1.40	1.12	1.02	.94
31VC405-F	A	50K	1.40	1.12	1.02	.94
31VC501-F	A	100K	1.40	1.12	1.02	.94
31VC503-F	A	250K	1.40	1.12	1.02	.94
31VC505-F	A	500K	1.40	1.12	1.02	.94
31VC601-F	A	1M	1.40	1.12	1.02	.94
31VC605-F	A	5M	1.40	1.12	1.02	.94

Audio Taper W/SPST Switch, (.335") Shaft Length

MOUSER STOCK NO.	B	Value (Ω)	Price Each			
			1	10	100	500
31XP301-F	B	1K	1.99	1.68	1.49	1.36
31XP305-F	B	5K	1.99	1.68	1.49	1.36
31XP401-F	B	10K	1.99	1.68	1.49	1.36
31XP405-F	B	50K	1.99	1.68	1.49	1.36
31XP501-F	B	100K	1.99	1.68	1.49	1.36
31XP505-F	B	500K	1.99	1.68	1.49	1.36
31XP601-F	B	1M	1.99	1.68	1.49	1.36

Linear Taper W/SPST Switch, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VM205-F	B	500	1.99	1.68	1.49	1.36
31VM301-F	B	1K	1.99	1.68	1.49	1.36
31VM303-F	B	2.5K	1.99	1.68	1.49	1.36
31VM305-F	B	5K	1.99	1.68	1.49	1.36
31VM401-F	B	10K	1.99	1.68	1.49	1.36
31VM403-F	B	25K	1.99	1.68	1.49	1.36
31VM405-F	B	50K	1.99	1.68	1.49	1.36
31VM501-F	B	100K	1.99	1.68	1.49	1.36
31VM503-F	B	250K	1.99	1.68	1.49	1.36
31VM505-F	B	500K	1.99	1.68	1.49	1.36
31VM601-F	B	1M	1.99	1.68	1.49	1.36

Linear Taper W/SPDT Switch, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
315-2415F-Value	C	1K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M	3.15	2.63	2.39

RoHS Compliant This product is RoHS compliant.

ALPHA SOLDER LUGS

Linear Taper W/Knurled Shaft, (.531") Shaft Length

For quantities 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VF205-F	D	500	1.40	1.12	1.02	.94
31VF301-F	D	1K	1.40	1.12	1.02	.94
31VF302-F	D	2K	1.40	1.12	1.02	.94
31VF305-F	D	5K	1.40	1.12	1.02	.94
31VF401-F	D	10K	1.40	1.12	1.02	.94
31VF405-F	D	50K	1.40	1.12	1.02	.94
31VF501-F	D	100K	1.40	1.12	1.02	.94
31VF503-F	D	250K	1.40	1.12	1.02	.94
31VF505-F	D	500K	1.40	1.12	1.02	.94
31VF601-F	D	1 Meg	1.40	1.12	1.02	.94
31VF602-F	D	2 Meg	1.40	1.12	1.02	.94

Dual Ganged Linear Taper, (.335") Shaft Length

For quantities 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VW205-F	E	500	2.73	2.27	2.06	1.88
31VW301-F	E	1K	2.73	2.27	2.06	1.88
31VW305-F	E	5K	2.73	2.27	2.06	1.88
31VW401-F	E	10K	2.73	2.27	2.06	1.88
31VW405-F	E	50K	2.73	2.27	2.06	1.88
31VW501-F	E	100K	2.73	2.27	2.06	1.88
31VW503-F	E	250K	2.73	2.27	2.06	1.88
31VW505-F	E	500K	2.73	2.27	2.06	1.88
31VW601-F	E	1M	2.73	2.27	2.06	1.88

Dual Ganged Audio Taper, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2420F-1K	E	1K	2.73	2.27	2.06	1.88
313-2420F-5K	E	5K	2.73	2.27	2.06	1.88
313-2420F-10K	E	10K	2.73	2.27	2.06	1.88
313-2420F-50K	E	50K	2.73	2.27	2.06	1.88
313-2420F-100K	E	100K	2.73	2.27	2.06	1.88
313-2420F-250K	E	250K	2.73	2.27	2.06	1.88
313-2420F-500K	E	500K	2.73	2.27	2.06	1.88
313-2420F-1M	E	1M	2.73	2.27	2.06	1.88

ALPHA PCB TERMINALS

Linear Taper, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VQ205-F	F	500	1.40	1.12	1.02	.94
31VQ301-F	F	1K	1.40	1.12	1.02	.94
31VQ305-F	F	5K	1.40	1.12	1.02	.94
31VQ401-F	F	10K	1.40	1.12	1.02	.94
31VQ403-F	F	25K	1.40	1.12	1.02	.94
31VQ405-F	F	50K	1.40	1.12	1.02	.94
31VQ501-F	F	100K	1.40	1.12	1.02	.94
31VQ503-F	F	250K	1.40	1.12	1.02	.94
31VQ505-F	F	500K	1.40	1.12	1.02	.94
31VQ601-F	F	1M	1.40	1.12	1.02	.94

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
314-1410F-Value	G	1K, 5K, 10K, 50K, 100K, 200K, 500K, 1M	1.40	1.12	1.02

SOLDER LUGS "D" SHAFT

Audio Taper, (.334") Shaft Length • Shaft Dia: .236"

For quantities 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2440F-Value	H	1K, 5K, 10K, 50K, 100K, 500K, 1M	1.40	1.12	1.02	.94

Linear Taper, (.334") Shaft Length • Shaft Dia: .236"

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2441F-Value	H	500, 1K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M, 2M, 5M	1.40	1.12	1.02	.94

ALPHA SOLDER LUGS WIREWOUND

Linear Taper 5 Watt

- Rotation angle: 300° ±5°
- Rotation torque: 30-300gf/cm
- Rated wattage: 5W
- End stop strength: 6Kg/cm

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2401F-20	I	20	4.00	3.20	3.00	2.80
313-2401F-50	I	50	4.00	3.20	3.00	2.80
313-2401F-100	I	100	4.00	3.20	3.00	2.80
313-2401F-1K	I	1K	4.00	3.20	3.00	2.80
313-2401F-2K	I	2K	4.00	3.20	3.00	2.80

A

DIMENSIONS: in.

One hex nut and one washer are included with each potentiometer.

If needed, additional hardware is available.

Knobs are found in the knob pages of the electromechanical section.

B SPST SWITCH

C SPDT SWITCH

D KNURLED SHAFT

E DUAL GANGED

F RIGHT ANGLE PC MOUNT

G PC MOUNT

H

I WIREWOUND

Potentiometers
Alpha