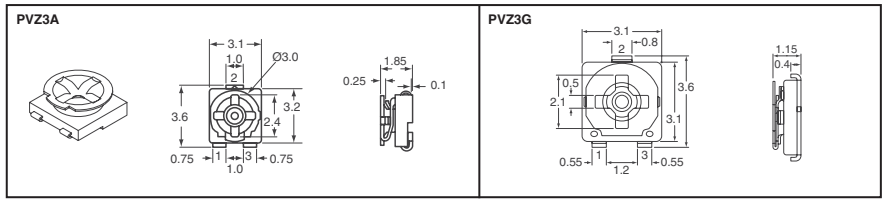
SMD Open Type Trimmer Potentiometers 3mm

PVZ3A and PVZ3G Series

Dimensions in mm

Features: • Excellent solderability characteristics are achieved via special plating techniques on each termination • Specially designed substrate prevents wicking of flux onto the top of the part body • Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting • Funnel shaped adjustment slot allows for in-process automatic adjustment • Standard position of driver plate is adjusted at the center • Products meets Pb-free



Specifications: • Power Rating: 0.1W (50°C) • Soldering Method: Reflow • Number of Turns (Effective Rotation Angle): 1 (230°±10°) • TCR (ppm/°C): ±500

Total Resistance Value (Ω) ±30%	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape and Reel Qty.	Pricing	Murata Part No.
PVZ3A Series								
300	490-2023-1-ND	.55	.94	8.16	—	—	—	PVZ3A301A01R00
300k	490-2026-1-ND	.55	.94	8.16	490-2026-2-ND	2,000	56.00/M	PVZ3A304A01R00
2M	490-2022-1-ND	.55	.94	8.16	—	—	—	PVZ3A205A01R00
PVZ3G Series								
220	490-4618-1-ND	.55	.94	8.16	490-4618-2-ND	2,500	55.42/M	PVZ3G221C01R00
330	490-4623-1-ND	.55	.94	8.16	490-4623-2-ND	2,500	55.42/M	PVZ3G331C01R00
470	490-4627-1-ND	.55	.94	8.16	490-4627-2-ND	2,500	55.42/M	PVZ3G471C01R00
680	490-4631-1-ND	.55	.94	8.16	490-4631-2-ND	2,500	55.42/M	PVZ3G681C01R00
1k	490-4610-1-ND	.62	1.05	9.12	490-4610-2-ND	2,500	61.94/M	PVZ3G102C01R00
1.5k	490-4614-1-ND	.55	.94	8.16	490-4614-2-ND	2,500	55.42/M	PVZ3G152C01R00
2.2k	490-4619-1-ND	.55	.94	8.16	490-4619-2-ND	2,500	55.42/M	PVZ3G222C01R00
3.3k	490-4624-1-ND	.55	.94	8.16	490-4624-2-ND	2,500	55.42/M	PVZ3G332C01R00
4.7k	490-4628-1-ND	.55	.94	8.16	490-4628-2-ND	2,500	55.42/M	PVZ3G472C01R00
6.8k	490-4632-1-ND	.55	.94	8.16	490-4632-2-ND	2,500	55.42/M	PVZ3G682C01R00
10k	490-4611-1-ND	1.00	1.70	14.81	490-4611-2-ND	2,500	100.58/M	PVZ3G103C01R00
15k	490-4615-1-ND	.57	.97	8.47	490-4615-2-ND	2,500	57.54/M	PVZ3G153C01R00
22k	490-4620-1-ND	.55	.94	8.16	490-4620-2-ND	2,500	55.42/M	PVZ3G223C01R00
33k	490-4625-1-ND	.62	1.05	9.12	490-4625-2-ND	2,500	62.00/M	PVZ3G333C01R00
47k	490-4629-1-ND	.57	.97	8.47	490-4629-2-ND	2,500	57.54/M	PVZ3G473C01R00
68k	490-4633-1-ND	.55	.94	8.16	490-4633-2-ND	2,500	55.42/M	PVZ3G683C01R00
100k	490-4612-1-ND	.50	.85	7.44	490-4612-2-ND	2,500	51.00/M	PVZ3G104C01R00
150k	490-4616-1-ND	.55	.94	8.16	490-4616-2-ND	2,500	55.42/M	PVZ3G154C01R00
220k	490-4621-1-ND	.55	.94	8.16	490-4621-2-ND	2,500	55.42/M	PVZ3G224C01R00
330k	490-4626-1-ND	.55	.94	8.16	490-4626-2-ND	2,500	55.42/M	PVZ3G334C01R00
470k	490-4630-1-ND	.55	.94	8.16	490-4630-2-ND	2,500	55.42/M	PVZ3G474C01R00
680k	490-4634-1-ND	.55	.94	8.16	490-4634-2-ND	2,500	55.42/M	PVZ3G684C01R00
1M	490-4613-1-ND	.55	.94	8.16	490-4613-2-ND	2,500	57.54/M	PVZ3G105C01R00
1.5M	490-4617-1-ND	.55	.94	8.16	490-4617-2-ND	2,500	55.42/M	PVZ3G155C01R00
2.2M	490-4622-1-ND	.53	.89	7.78	490-4622-2-ND	2,500	53.00/M	PVZ3G225C01R00

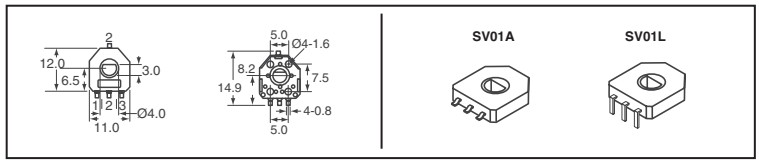
G

Angle Sensing Potentiometer Dust-Proof Type 12mm

SV01 Series

Dimensions in mm

Features: • Dust-proof construction • Compliant to high peak temperature reflow soldering • Excellent resistance materials and high reliability wiper achieves 1M cycles • D formation thru-hole rotor enables to select any kind of gear shape • Ultra-thin size (2.1mm height) • Gold plated terminals without lead



Total Resistance Value (kΩ) ±30%	Linearity ± (%)	Effective Rotational Angle (°) (Ref.)	TCR ± ppm/°C	Rotational Life (Cycles)	Mounting Style	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
10	2	333.3	500	1M	SMD	490-2400-ND	1.20	10.87	101.31	SV01A103AEA01B00
10	2	333.3	500	1M	Thru-Hole	490-3913-ND	1.27	11.52	107.39	SV01L103AEA11T00

Rotary Position Sensors SV01C

Potentiometer and Non-Contacting SV21C Series

Dimensions in mm

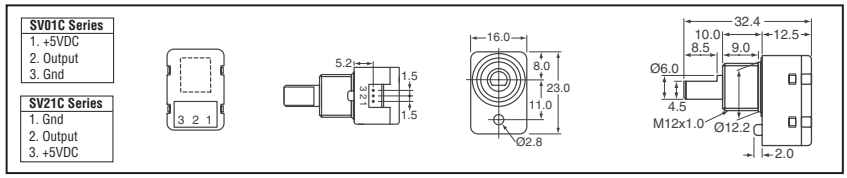
Features:

SV01C Series:

• Dust-proof construction • Temperature compensate range -40°C ~ 85°C • Optimal connector: Connector socket and bushing mount

SV21C Series:

• Non-contacting • Programmable hole IC can be available for optional output voltage curve • Dust-proof construction • Temperature compensate range -20°C ~ 85°C • Optimal connector: Connector socket and bushing mount



Total Resistance Value (kΩ) ±30%	Action Voltage ±0.5VDC	Linearity ± (%)	Effective Rotational Angle (°) Max.	Rotational Torque Max.	Rotational Life Cycles	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
SV01C Series										
10	5	3	333.3	4mN·m (Ref.; 40gf·cm)	1M	490-4674-ND	6.05	5.50	5.13	SV01C103BJZAEB00
SV21C Series										
—	5	2	200	5mN·m (Ref.; 50gf·cm)	10M	490-4635-ND	35.75	32.50	30.29	SV21C201BJA01B00

See Below for JST Mating Connector

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Qty.	Pricing	JST Part No.
3-Position, 1.5mm, Disconnectable Crimp Style ZH Connector	455-1160-ND◆	.41	3.40	13.59	—	—	—	ZHR-3
26-28AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1130-1-ND◆Δ	—	1.42	5.68	455-1130-2-ND	13,000	7.56/M	SZH-002T-P0.5
28-32AWG Tin-Plated Phosphor Bronze Crimp Contact	455-1281-1-ND◆Δ	—	1.42	5.68	455-1281-2-ND	16,000	7.56/M	SZH-003T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND		440.15/1		—	—	—	WC-491
Crimp Tool with Die for 28-32AWG Contacts	455-1259-ND		440.15/1		—	—	—	WC-490

◆ ***RoHS Compliant*** Δ Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.