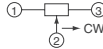


COPAL ELECTRONICS

Cermet Potentiometers

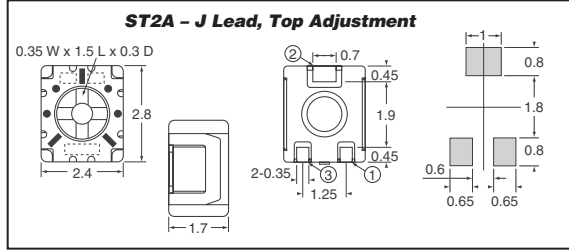


Model ST2 Surface Mount, 2mm Squared Single-Turn



FEATURES: • Lead-free soldering • Cadmium-free • Compact and low-profile • Sealed Construction (Washable) • **ELECTRICAL:** Resistance Tolerance: $\pm 20\%$ Temperature Coefficient: $\pm 150 \text{ ppm}/^\circ\text{C}$ Power Ratings: 0.1W at 70°C , 0W at 125°C Input Voltage Maximum: 50VDC or power rating, whichever is less Wiper Current Maximum: Power Ratings (I = P/R A) Effective Electrical Angle: 240° (1 turn) End Resistance: 1% or 20, whichever is greater Contact Resistance Variation: 2% or 30, whichever is greater

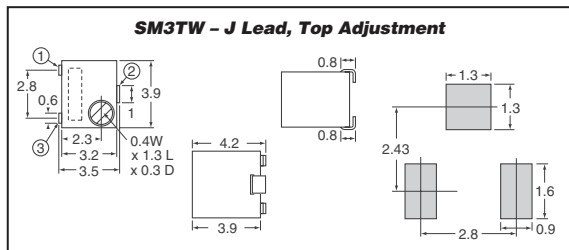
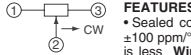
Operating Temperature Range: $-55^\circ\text{C} \sim 125^\circ\text{C}$ **Minimum Insulation Resistance:** 1000M Ω at 500VDC **Dielectric Strength:** 500VAC, 1 minute **MECHANICAL:** Mechanical Angle: 270° (1 turn) **Maximum Operating Torque:** 5mN.m (51 gf.cm) **Minimum Stop Strength:** 8mN.m (78.4 gf.cm) **Rotational Life:** 50 cycles ($\Delta R/R \leq (2\% + 5\%)$) **Solderability:** $245 \pm 3^\circ\text{C}$, 2-3 seconds



Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 500
		1	10	100		
100	ST2TA101CT-ND	3.30	3.07	2.77	ST2TA101TR-ND	1177.00
200	ST2TA201CT-ND	3.30	3.07	2.77	ST2TA201TR-ND	1177.00
500	ST2TA501CT-ND	3.30	3.07	2.77	ST2TA501TR-ND	1177.00
1K	ST2TA102CT-ND	3.30	3.07	2.77	ST2TA102TR-ND	1177.00
2K	ST2TA202CT-ND	3.30	3.07	2.77	ST2TA202TR-ND	1177.00
5K	ST2TA502CT-ND	3.30	3.07	2.77	ST2TA502TR-ND	1177.00
10K	ST2TA103CT-ND	3.30	3.07	2.77	ST2TA103TR-ND	1177.00
20K	ST2TA203CT-ND	3.30	3.07	2.77	ST2TA203TR-ND	1177.00
50K	ST2TA503CT-ND	3.30	3.07	2.77	ST2TA503TR-ND	1177.00
100K	ST2TA104CT-ND	3.30	3.07	2.77	ST2TA104TR-ND	1177.00
200K	ST2TA204CT-ND	3.30	3.07	2.77	ST2TA204TR-ND	1177.00
500K	ST2TA504CT-ND	3.30	3.07	2.77	ST2TA504TR-ND	1177.00
1 Meg	ST2TA105CT-ND	3.30	3.07	2.77	ST2TA105TR-ND	1177.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM3 Surface Mount, 3mm Squared Multi-Turn

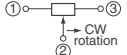


FEATURES: • Lead-free soldering • Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) • **ELECTRICAL:** Resistance Tolerance: $\pm 20\%$ Maximum Temperature Coefficient: $\pm 100 \text{ ppm}/^\circ\text{C}$ Power Ratings: 0.125W at 70°C , 0W at 150°C Input Voltage Maximum: 20VDC or power rating, whichever is less Wiper Current Maximum: 100mA or power rating, whichever is less Effective Electrical Turn: 11 turns End Resistance: 1% or 30, whichever is greater Contact Resistance Variation: 3% or 30, whichever is greater Operating Temperature Range: $-65^\circ\text{C} \sim 150^\circ\text{C}$ Minimum Insulation Resistance: 100M Ω at 500VDC Dielectric Strength: 600VAC, 1 minute MECHANICAL: Maximum Operating Torque: 5mN.m (51gf.cm) Mechanical Stop: Clutch action Rotational Life: 200 cycles ($\Delta R/R \leq (2\% + 3\%)$) Minimum Thrust to Shaft: 5N (0.51kgf) Solderability: $245 \pm 3^\circ\text{C}$, 2-3 seconds

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 500
		1	10	100		
100	SM-3TW101CT-ND	2.90	2.70	2.44	SM-3TW101TR-ND	1037.00
500	SM-3TW501CT-ND	2.90	2.70	2.44	SM-3TW501TR-ND	1037.00
1K	SM-3TW102CT-ND	2.90	2.70	2.44	SM-3TW102TR-ND	1037.00
2K	SM-3TW202CT-ND	2.90	2.70	2.44	SM-3TW202TR-ND	1037.00
5K	SM-3TW502CT-ND	2.90	2.70	2.44	SM-3TW502TR-ND	1037.00
10K	SM-3TW103CT-ND	2.90	2.70	2.44	SM-3TW103TR-ND	1037.00
20K	SM-3TW203CT-ND	2.90	2.70	2.44	SM-3TW203TR-ND	1037.00
50K	SM-3TW503CT-ND	2.90	2.70	2.44	SM-3TW503TR-ND	1037.00
100K	SM-3TW104CT-ND	2.90	2.70	2.44	SM-3TW104TR-ND	1037.00

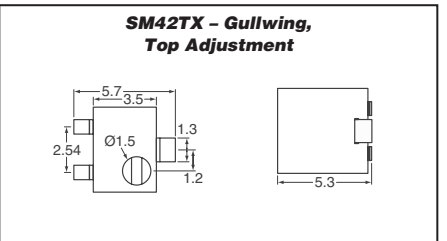
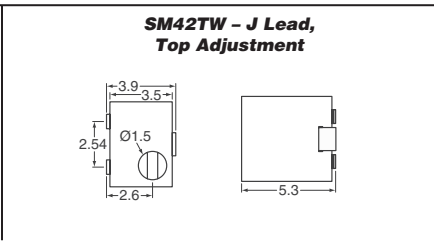
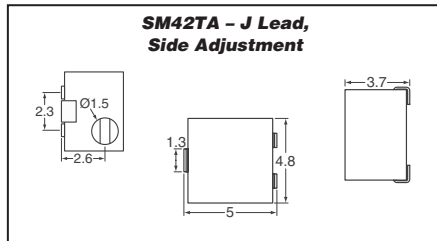
Units Marked with Resistance Code and 2-Digit Date Code.

NEW! Model SM42 Surface Mount, 4mm Squared Multi-Turn



FEATURES: • Lead free soldering • Cadmium-free • Fine adjustment • Reflow soldering available • Sealed construction (washable) • **ELECTRICAL:** • Resistance Tolerance: $\pm 10\%$ • Maximum Temperature Coefficient: $\pm 100 \text{ ppm}/^\circ\text{C}$ Max. • Power Ratings: 25W@85 $^\circ\text{C}$, 0W @ 150 $^\circ\text{C}$ • Maximum Input Voltage: 300VDC or power rating, whichever is less • Maximum Wiper Current: 100mA or power rating, whichever is smaller

• Effective Electrical Turn: 11 turns • End Resistance: 1% or 20, whichever is greater • Contact Resistance Variation: 1% or 30, whichever is greater • Operating Temperature Range: $-65^\circ\text{C} \sim 150^\circ\text{C}$ • Minimum Insulation Resistance: 100M Ω @ 500VDC • Dielectric Strength: 600VAC for 1 minute • MECHANICAL: • Maximum Operating Torque: 17.6mN per meter • Mechanical Stop: Clutch action • Rotational Life: 200 cycles ($\Delta R/R \leq 3\% + 3\%$)



Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
		1	10	100		Qty.	Pricing
SM-42TA - J-Lead, Side Adjustment							
50	SM-42TA500CT-ND	2.87	2.67	2.42	SM-42TA500TR-ND	500	1026.00
100	SM-42TA101CT-ND	2.87	2.67	2.42	SM-42TA101TR-ND	500	1026.00
200	SM-42TA201CT-ND	2.87	2.67	2.42	SM-42TA201TR-ND	500	1026.00
500	SM-42TA501CT-ND	2.87	2.67	2.42	SM-42TA501TR-ND	500	1026.00
1K	SM-42TA102CT-ND	2.87	2.67	2.42	SM-42TA102TR-ND	500	1026.00
2K	SM-42TA202CT-ND	2.87	2.67	2.42	SM-42TA202TR-ND	500	1026.00
5K	SM-42TA502CT-ND	2.87	2.67	2.42	SM-42TA502TR-ND	500	1026.00
10K	SM-42TA103CT-ND	2.87	2.67	2.42	SM-42TA103TR-ND	500	1026.00
20K	SM-42TA203CT-ND	2.87	2.67	2.42	SM-42TA203TR-ND	500	1026.00
50K	SM-42TA503CT-ND	2.87	2.67	2.42	SM-42TA503TR-ND	500	1026.00
100K	SM-42TA104CT-ND	2.87	2.67	2.42	SM-42TA104TR-ND	500	1026.00
200K	SM-42TA204CT-ND	2.87	2.67	2.42	SM-42TA204TR-ND	500	1026.00
500K	SM-42TA504CT-ND	2.87	2.67	2.42	SM-42TA504TR-ND	500	1026.00
1 Meg	SM-42TA105CT-ND	2.87	2.67	2.42	SM-42TA105TR-ND	500	1026.00
2 Meg	SM-42TA205CT-ND	2.87	2.67	2.42	SM-42TA205TR-ND	500	1026.00
SM-42TW - J-Lead, Top Adjustment							
50	SM-42TW500CT-ND	2.87	2.67	2.42	SM-42TW500TR-ND	250	513.00
100	SM-42TW101CT-ND	2.87	2.67	2.42	SM-42TW101TR-ND	250	513.00
200	SM-42TW201CT-ND	2.87	2.67	2.42	SM-42TW201TR-ND	250	513.00
500	SM-42TW501CT-ND	2.87	2.67	2.42	SM-42TW501TR-ND	250	513.00
1K	SM-42TW102CT-ND	2.87	2.67	2.42	SM-42TW102TR-ND	250	513.00
2K	SM-42TW202CT-ND	2.87	2.67	2.42	SM-42TW202TR-ND	250	513.00
5K	SM-42TW502CT-ND	2.87	2.67	2.42	SM-42TW502TR-ND	250	513.00

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
		1	10	100		Qty.	Pricing
SM-42TX - Gullwing, Top Adjustment							
50	SM-42TX500CT-ND	2.93	2.73	2.47	SM-42TX500TR-ND	250	523.75
100	SM-42TX101CT-ND	2.93	2.73	2.47	SM-42TX101TR-ND	250	523.75
200	SM-42TX201CT-ND	2.93	2.73	2.47	SM-42TX201TR-ND	250	523.75
500	SM-42TX501CT-ND	2.93	2.73	2.47	SM-42TX501TR-ND	250	523.75
1K	SM-42TX102CT-ND	2.93	2.73	2.47	SM-42TX102TR-ND	250	523.75
2K	SM-42TX202CT-ND	2.93	2.73	2.47	SM-42TX202TR-ND	250	523.75
5K	SM-42TX502CT-ND	2.93	2.73	2.47	SM-42TX502TR-ND	250	523.75
10K	SM-42TX103CT-ND	2.93	2.73	2.47	SM-42TX103TR-ND	250	523.75
20K	SM-42TX203CT-ND	2.93	2.73	2.47	SM-42TX203TR-ND	250	523.75
50K	SM-42TX503CT-ND	2.93	2.73	2.47	SM-42TX503TR-ND	250	523.75
100K	SM-42TX104CT-ND	2.93	2.73	2.47	SM-42TX104TR-ND	250	523.75
200K	SM-42TX204CT-ND	2.93	2.73	2.47	SM-42TX204TR-ND	250	523.75
500K	SM-42TX504CT-ND	2.93	2.73	2.47	SM-42TX504TR-ND	250	523.75
1 Meg	SM-42TX105CT-ND	2.93	2.73	2.47	SM-42TX105TR-ND	250	523.75
2 Meg	SM-42TX205CT-ND	2.93	2.73	2.47	SM-42TX205TR-ND	250	523.75

Units Marked with Resistance Code and 2-Digit Date Code.

(Continued)

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