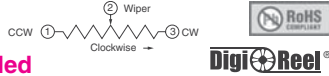


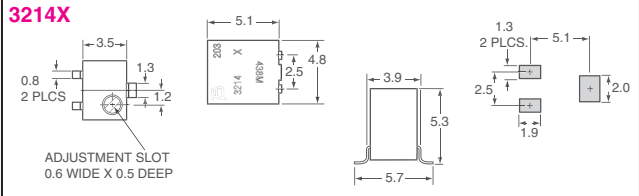
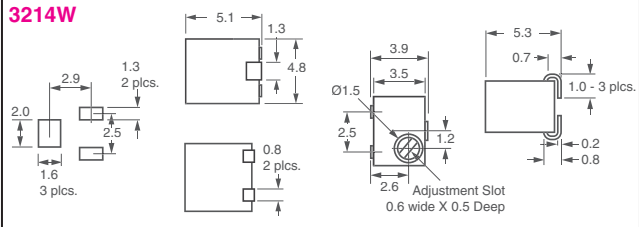
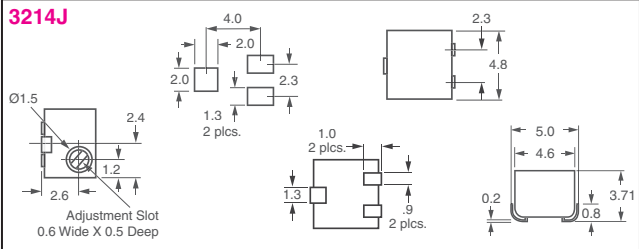
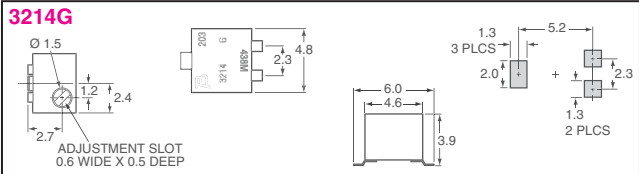
BOURNS® Trimmer Potentiometers

SERIES 3214 — Surface Mount 4mm Square/Multi-Turn Cermet/Industrial/Sealed



Features: • Sealed to withstand board wash processing • Pick and place centering design, with flush adjustment • Patent #5047746 advanced drive/wiper mechanism **Characteristics:** • **Resistance Tolerance:** ±10% standard • **Absolute Minimum Resistance:** 1% or 2.0Ω (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** Sea Level: 600VAC (1 minute) • **Adjustment Angle:** 5 turns nominal • **Power Rating (300V max.):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C - 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Vibration:** 20G TRS ±1%; VRS ±1% • **Shock:** 100G TRS ±1%; VRS ±1% • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%; VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code • **Solderability:** Per MIL-STD-202, Method 208 • **Wiper:** Set at 50% nominal • **Flammability:** UL 94V-0

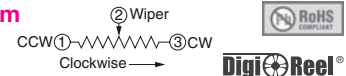
Dim. in mm



Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3214G-1-100E□□-ND	—	3214W-1-100E□□-ND	—
20	—	3214J-1-200E□□-ND	—	3214X-1-200E□□-ND
50	—	—	3214W-1-500E□□-ND	—
100	—	3214J-101E□□-ND	3214W-101E□□-ND	3214X-1-101E□□-ND
200	—	3214J-201E□□-ND	3214W-201E□□-ND	3214X-1-201E□□-ND
500	3214G-1-501E□□-ND	3214J-501E□□-ND	3214W-501E□□-ND	3214X-1-501E□□-ND
1K	3214G-1-102E□□-ND	3214J-102E□□-ND	3214W-102E□□-ND	3214X-1-102E□□-ND
2K	3214G-1-202E□□-ND	3214J-202E□□-ND	3214W-202E□□-ND	3214X-1-202E□□-ND
5K	3214G-1-502E□□-ND	3214J-502E□□-ND	3214W-502E□□-ND	3214X-1-502E□□-ND
10K	3214G-1-103E□□-ND	3214J-103E□□-ND	3214W-103E□□-ND	3214X-1-103E□□-ND
20K	3214G-1-203E□□-ND	3214J-203E□□-ND	3214W-203E□□-ND	3214X-1-203E□□-ND
50K	3214G-1-503E□□-ND	3214J-503E□□-ND	3214W-503E□□-ND	3214X-1-503E□□-ND
100K	—	3214J-104E□□-ND	3214W-104E□□-ND	3214X-1-104E□□-ND
200K	3214G-1-204E□□-ND	3214J-1-204E□□-ND	3214W-1-204E□□-ND	3214X-1-204E□□-ND
500K	—	3214J-1-504E□□-ND	3214W-1-504E□□-ND	3214X-1-504E□□-ND
1M	—	—	3214W-1-105E□□-ND	3214X-1-105E□□-ND
2M	—	—	3214W-1-205E□□-ND	—

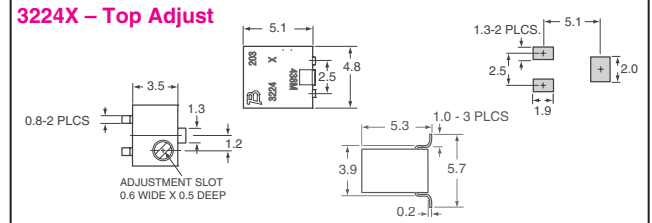
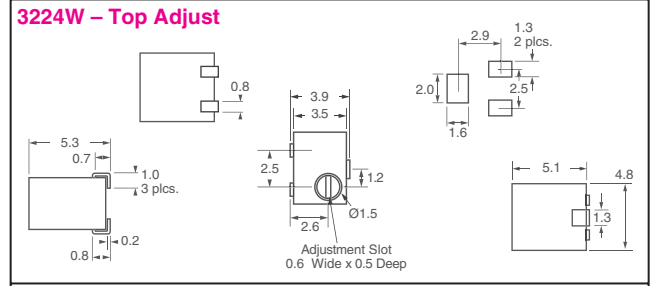
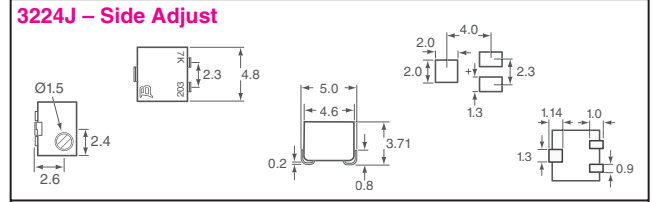
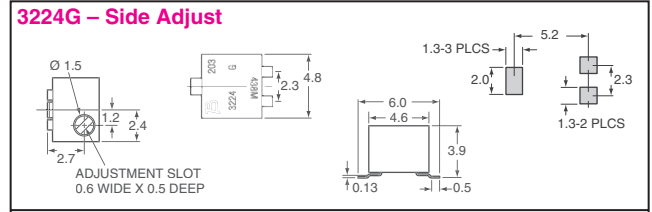
Series	Part No.	Cut Tape Pricing			Part No.	Tape and Reel Pricing			
		1	10	100		200	250	400	500
3214G	Add "CT"-ND	3.30	27.48	252.85	Add "TR"-ND	—	—	—	896.22
3214J	Add "CT"-ND	3.61	30.97	268.42	Add "TR"-ND	—	—	—	841.62
3214W	Add "CT"-ND	3.61	30.97	268.42	Add "TR"-ND	—	464.57	—	841.62
3214X	Add "CT"-ND	3.30	27.48	252.85	Add "TR"-ND	395.77	—	716.98	—

SERIES 3224 — SMT 4mm Multi-Turn (11) Cermet



Characteristics:
Resistance Tolerance: ±10% standard • **Absolute Minimum Resistance:** 1% or 2Ω (whichever is greater) • **Contact Resistance Variation:** 1% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** Sea Level: 600VAC (1 minute) • **Adjustment Angle:** 11 turns nominal • **Power Rating (300V maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C - 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code

Dim. in mm



Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	—	3224J-1-100E□□-ND	—	3224X-1-100E□□-ND
20	—	—	3224J-1-200E□□-ND	—
50	—	—	—	3224X-1-500E□□-ND
100	—	3224J-1-101E□□-ND	3224W-1-101E□□-ND	3224X-1-101E□□-ND
200	3224G-1-201E□□-ND	3224J-1-201E□□-ND	3224W-1-201E□□-ND	3224X-1-201E□□-ND
500	3224G-1-501E□□-ND	3224J-1-501E□□-ND	3224W-1-501E□□-ND	3224X-1-501E□□-ND
1K	—	3224J-1-102E□□-ND	3224W-1-102E□□-ND	3224X-1-102E□□-ND
2K	3224G-1-202E□□-ND	3224J-202E□□-ND	3224W-202E□□-ND	3224X-1-202E□□-ND
5K	3224G-1-502E□□-ND	3224J-502E□□-ND	3224W-502E□□-ND	3224X-1-502E□□-ND
10K	3224G-1-103E□□-ND	3224J-103E□□-ND	3224W-103E□□-ND	3224X-1-103E□□-ND
20K	—	3224J-203E□□-ND	3224W-203E□□-ND	3224X-1-203E□□-ND
50K	3224G-1-503E□□-ND	3224J-503E□□-ND	3224W-503E□□-ND	3224X-1-503E□□-ND
100K	—	3224J-1-104E□□-ND	3224W-1-104E□□-ND	3224X-1-104E□□-ND
200K	3224G-1-204E□□-ND	3224J-1-204E□□-ND	3224W-1-204E□□-ND	3224X-1-204E□□-ND
500K	3224G-1-504E□□-ND	3224J-1-504E□□-ND	3224W-1-504E□□-ND	3224X-1-504E□□-ND
1M	—	—	—	3224X-1-105E□□-ND

Series	Part No.	Cut Tape Pricing			Part No.	Tape and Reel Pricing			
		1	10	100		200	250	400	500
3224G	Add "CT"-ND	5.34	44.51	409.51	Add "TR"-ND	—	—	—	1451.28
3224J	Add "CT"-ND	5.86	50.16	434.72	Add "TR"-ND	—	—	—	1362.86
3224W	Add "CT"-ND	5.86	50.16	434.72	Add "TR"-ND	—	752.41	—	1362.86
3224X	Add "CT"-ND	5.34	44.51	409.51	Add "TR"-ND	640.98	—	1161.02	—

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.

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