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BOURNS 95A2A-B28-A10/A10L

User Manual: Bourns 95A2A-B28-A10/A10L Cermet Potentiometer

Model: 95A2A-B28-A10/A10L

Brand: BOURNS

PRODUCT OVERVIEW

This manual provides detailed instructions for the Bourns 95A2A-B28-A10/A10L Cermet Potentiometer. This component is a single-turn, 1K Ohm, 1W cermet potentiometer designed for panel mounting with solder lug terminals. It is suitable for various electronic applications requiring precise resistance adjustment.



The image displays the Bourns 95A2A-B28-A10/A10L Cermet Potentiometer, showing its blue body, metal shaft, and three solder lug terminals. The component is designed for panel mounting.

KEY FEATURES

- Resistance: 1K Ohm
- Power Rating: 1 Watt
- Tolerance: 10%
- Turns: 1 Electrical / 1 Mechanical
- Shaft Diameter: 6.35mm
- Dimensions: Approximately 45.09mm x 15.88mm x 22.55mm
- Mounting Type: Panel Mount
- Termination Style: Solder Lug
- Element Type: Cermet

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of the potentiometer.

Mounting

The 95A2A-B28-A10/A10L is designed for panel mounting.

1. Ensure the mounting hole on the panel is appropriately sized for the potentiometer's bushing. Refer to the mechanical specifications for precise dimensions.
2. Insert the potentiometer shaft through the panel hole.
3. Secure the potentiometer using the provided nut and washer on the front side of the panel. Tighten firmly but do not overtighten to avoid damaging the component or panel.

Electrical Connections

The potentiometer has three solder lug terminals.

- **Terminal 1 (Counter-Clockwise End):** Connect to one end of the circuit where resistance is desired.
- **Terminal 2 (Wiper):** Connect to the point where variable resistance is needed.
- **Terminal 3 (Clockwise End):** Connect to the other end of the circuit.

Note: For variable resistor (rheostat) applications, connect the wiper (Terminal 2) to either Terminal 1 or Terminal 3, and use the remaining two terminals.

Use appropriate soldering techniques to ensure secure and reliable electrical connections. Avoid excessive heat which can damage the internal components.

OPERATING INSTRUCTIONS

The Bourns 95A2A-B28-A10/A10L is a single-turn potentiometer.

- **Rotation:** The shaft can be rotated approximately 270-300 degrees from one end stop to the other.
- **Resistance Adjustment:** Rotating the shaft changes the resistance between the wiper terminal and the end terminals.
- **Clockwise Rotation:** Typically increases resistance between Terminal 1 and Terminal 2, and decreases resistance between Terminal 2 and Terminal 3.
- **Counter-Clockwise Rotation:** Typically decreases resistance between Terminal 1 and Terminal 2, and increases resistance between Terminal 2 and Terminal 3.

Always ensure the circuit is de-energized before making or changing connections.

MAINTENANCE

The Bourns cermet potentiometer is a robust component designed for long-term reliability with minimal maintenance.

- **Cleaning:** If the external surfaces become dirty, gently wipe with a clean, dry, lint-free cloth. Avoid using solvents or abrasive cleaners.
- **Inspection:** Periodically inspect the solder connections for any signs of corrosion or loosening. Ensure the mounting nut remains secure.
- **Environmental Conditions:** Operate and store the potentiometer within specified temperature and humidity ranges to prevent degradation.

Do not attempt to disassemble the potentiometer, as this will void any warranty and may damage the component.

TROUBLESHOOTING

If you encounter issues with the potentiometer, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No resistance change	Incorrect wiring; Open circuit; Damaged wiper.	Verify wiring connections; Check for continuity across terminals; Replace potentiometer if damaged.
Intermittent resistance	Loose connections; Contamination inside element; Worn element.	Resolder connections; Replace potentiometer.
Resistance value out of specification	Component tolerance; Environmental factors; Damaged element.	Verify against specifications; Ensure proper operating conditions; Replace if damaged.
Shaft difficult to turn	Overtightened mounting nut; Mechanical damage.	Loosen mounting nut slightly; Replace if mechanically damaged.

SPECIFICATIONS

Detailed technical specifications for the Bourns 95A2A-B28-A10/A10L Cermet Potentiometer.



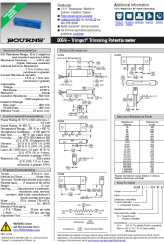

Parameter	Value
Model Number	95A2A-B28-A10/A10L
Resistance	1K Ohm
Power Rating	1 Watt
Resistance Tolerance	±10%
Taper	Linear
Number of Turns	1 (Electrical) / 1 (Mechanical)
Shaft Diameter	6.35 mm
Dimensions (L x W x H)	45.09 mm x 15.88 mm x 22.55 mm (approx.)
Mounting Type	Panel Mount
Termination Style	Solder Lug
Element Material	Cermet
Operating Temperature Range	(Refer to Bourns datasheet for specific range)
Manufacturer	Bourns



WARRANTY AND SUPPORT

For specific warranty information and technical support regarding the Bourns 95A2A-B28-A10/A10L Cermet Potentiometer, please refer to the official Bourns website or contact their customer service directly.


Note: Warranty terms may vary based on region and distributor. Always retain your proof of purchase.

Related Documents - 95A2A-B28-A10/A10L

	<p>Bard Wall-Mount Heater Package Replacement Parts Manual</p> <p>Comprehensive replacement parts manual for Bard Wall-Mount Heater Package models. Includes functional component diagrams, part numbers, and applicability tables for various EHW series heaters.</p>
	<p>Audio Ltd. A10-TX Digital Transmitter User Guide</p> <p>Comprehensive user guide for the Audio Ltd. A10-TX Digital Transmitter, covering setup, operation, features, specifications, and troubleshooting. Learn about frequency selection, audio input, recording, firmware updates, and more.</p>
	<p>Bourns 3059 Trimpot Trimming Potentiometer Datasheet</p> <p>Detailed specifications and product dimensions for the Bourns 3059 Trimpot Trimming Potentiometer, including electrical, environmental, and physical characteristics, and ordering information.</p>
	<p>FSP A10-XE2 Series AC-DC Converter Datasheet</p> <p>Datasheet for FSP's A10-XE2 Series 10W AC-DC switching power supplies, detailing specifications, features, selection guide, and mechanical information for industrial applications.</p>

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<div><div><div><div><div><div></div><div>User Manual</div></div></div></div></div><div><p>AERLANG A10 Electric Scooter User Manual</p><p>Comprehensive user manual for the AERLANG A10 electric scooter, covering setup, operation, safety, maintenance, and troubleshooting.</p></div></div>	

Documents - BOURNS – 95A2A-B28-A10/A10L



PRODUCT UPDATE MEMO

SENSORS & CONTROLS

Clarification of EU RoHS Compliance

Riverside, California – November 14, 2024 – Effective immediately, the EU RoHS compliance determination for the Bourns® products listed below is clarified to show Lead as an alloying element in Aluminum of up to 0.4 % by weight. In the Bourns® products listed below we use Aluminum 2011 T3 which contains Lead by weight within the permitted percentage by weight under European RoHS 1015 RoHS Directive.

There has not been, nor will there be, any design, material or manufacturing process change and no effect certification for the Bourns® products listed below. Therefore, fit, function, quality, reliability and production leadtimes will remain the same. The purchase order lead time and warranty / lead time to order quantity will remain the same.

Consequently, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificate of RoHS compliance to show values not exempted RoHS for Lead as an alloying element in Aluminum.

Affected Product Series				
1405	1722	6108	82	93
1500	1750	6139	83	96
1501	1751	6174	84	97
1540	1802	6175	85	99
1541	51	6027	86	AM522
1545	52	6038	87	SC
1545	53	6039	91	BM14
1590	56	6027	92	EM522
1700	6134	6074	94	19
1701	6137	81	95	E514

Bourns is working on replacing Aluminum 2011 T3 with Lead free Aluminum in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Aluminum is implemented.

If you have any questions or need additional information, please feel free to contact [Bourns Customer Service](#) or [Bourns Sales](#).

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[pdf] Datasheet Declaration of Conformity

Clarification of EU RoHS Compliance Bourns® Sensors Controls Bourns Inc bourns sc2436 rohs clarification pum docs technical documents product change notifications SC2436 PUM 14 нояб 2024 г — will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Aluminum is implemented Notice EN Nov · working on replacing 2011 T3 with in the impacted products 95A2A B28 A10 A10L BOURNS Rotary Potentiometer 1 kohm Turns Linear 2 W Â± 10% 95 Series Newark Electronics 4474201 farnell datasheets BournsProduct ENVariousNov Change14 implemented95A2A Electronics bourns PUMbourns PUMfarnell 4474201bourns ENImportant InfoVariousNov Electronics bourns mds sfvrn 6d1a2ef6 3bourns ||| PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS Compliance Riverside, California November 14, 2024 Effective immediately, the EU RoHS compliance determination for the Bourns products listed below is clarified to show Lead as an alloying element in Aluminum of up to 0.4 by weigh... lang:en score:21 filesize: 96.48 K page_count: 1 document date: 2024-11-14



PRODUCT UPDATE MEMO
SENSORS & CONTROLS

Clarification of EU RoHS Compliance

Riverside, California - November 14, 2024 - Effective immediately, the EU RoHS compliance determination for the Bourns® products listed below is clarified by sheet lead as an alloying element in Aluminum (up to 4% by weight). In the Bourns® products listed below we use Aluminum 2011 T3 which contains Lead by weight within the permitted percentage by weight under Exemption B3 to EU RoHS Directive.

There has not been, nor will there be, any design, material, or manufacturing process change arising out of this clarification for the Bourns® products listed below. The form, fit, function, quality, reliability and performance that these will remain the same. The purchase order numbers and minimum / maximum order quantities will remain the same.

Concurrently herewith, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificates of EU RoHS compliance to those values in Exemption B3 to EU RoHS Directive.

Affected Product Series					
1400	1712	6138	82	93	
1500	1750	6139	83	96	
1501	1751	6174	84	97	
1540	1802	6175	85	99	
1541	51	6637	86	AMS22	
1543	52	6638	87	EC	
1545	53	6639	91	EU14	
1590	56	6637	92	EU122	
1700	6134	6674	94	EN	
1701	6137	81	95	EU14	

Bourns is working on replacing Aluminum 2011 T3 with Lead free Aluminum in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Aluminum is implemented.

If you have any questions or need additional information, please feel free to contact [Bourns Customer Service/Trade Sales](#).

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[pdf] Declaration of Conformity

Bourns Product Change SC2436 EDC 20241115 004 Clarification of EU RoHS Compliance 14 11 2024 —

Riverside California November Effective immediately the compliance determination for Bourns® products

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PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS


Compliance Riverside, California ... -B28-A18L 95A1D-C24-H18L 95A1D-C28-B15L

95A1D-C28-H15L 95A1D-G20-H06L 95A1D-G24-D20L 95A1D-G28-D25L **95A2A-**

B28-A10/A10L 95A2A-B28-B10/B10L 95A2A-G28-A13/A13L 95A2D-C24-A05/A05L

95C1A-E24-L15L 95C1C-D24...

lang:en score:20 filesize: 165.13 K page_count: 54 document date: 2024-11-15



PRODUCT UPDATE MEMO
SENSORS & CONTROLS

Clarification of EU RoHS Compliance

Riverside, California - November 14, 2024 - Effective immediately, the EU RoHS compliance determination for the Bourns® products listed below is clarified by sheet lead as an alloying element in Aluminum (up to 4% by weight). In the Bourns® products listed below we use Aluminum 2011 T3 which contains Lead by weight within the permitted percentage by weight under Exemption B3 to EU RoHS Directive.

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Concurrently herewith, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificates of EU RoHS compliance to those values in Exemption B3 to EU RoHS Directive.

Affected Product Series					
1400	1712	6138	82	93	
1500	1750	6139	83	96	
1501	1751	6174	84	97	
1540	1802	6175	85	99	
1541	51	6637	86	AMS22	
1543	52	6638	87	EC	
1545	53	6639	91	EU14	
1590	56	6637	92	EU122	
1700	6134	6674	94	EN	
1701	6137	81	95	EU14	

Bourns is working on replacing Aluminum 2011 T3 with Lead free Aluminum in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Aluminum is implemented.

If you have any questions or need additional information, please feel free to contact [Bourns Customer Service/Trade Sales](#).

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Bourns Product Change Notification SC2436 is working on replacing Aluminum 2011 T3 with Lead free

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PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS


Compliance Riverside, California ... -B28-A18L 95A1D-C24-H18L 95A1D-C28-B15L

95A1D-C28-H15L 95A1D-G20-H06L 95A1D-G24-D20L 95A1D-G28-D25L **95A2A-**

B28-A10/A10L 95A2A-B28-B10/B10L 95A2A-G28-A13/A13L 95A2D-C24-A05/A05L

95C1A-E24-L15L 95C1C-D24...

lang:en score:20 filesize: 164.89 K page_count: 54 document date: 2024-11-18



PRODUCT UPDATE MEMO
SENSORS & CONTROLS

Clarification of EU RoHS Compliance

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Concurrently herewith, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificates of EU RoHS compliance to those values in Exemption B3 to EU RoHS Directive.

Affected Product Series					
1400	1712	6138	82	93	
1500	1750	6139	83	96	
1501	1751	6174	84	97	
1540	1802	6175	85	99	
1541	51	6637	86	AMS22	
1543	52	6638	87	EC	
1545	53	6639	91	EU14	
1590	56	6637	92	EU122	
1700	6134	6674	94	EN	
1701	6137	81	95	EU14	

Bourns is working on replacing Aluminum 2011 T3 with Lead free Aluminum in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Aluminum is implemented.

If you have any questions or need additional information, please feel free to contact [Bourns Customer Service/Trade Sales](#).

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Bourns Product Change SC2436 EDC 20241115 004 Clarification of EU RoHS Compliance TTI

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PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS


Compliance Riverside, California ... -B28-A18L 95A1D-C24-H18L 95A1D-C28-B15L

95A1D-C28-H15L 95A1D-G20-H06L 95A1D-G24-D20L 95A1D-G28-D25L **95A2A-**

B28-A10/A10L 95A2A-B28-B10/B10L 95A2A-G28-A13/A13L 95A2D-C24-A05/A05L

95C1A-E24-L15L 95C1C-D24...

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PRODUCT UPDATE MEMO
SENSORS & CONTROLS

Clarification of EU RoHS Compliance

Riverside, California - November 14, 2024 - Effective immediately, the EU RoHS compliance determination for the Bourns® products listed below is clarified to show Lead as an alloying element in Bourns® alloys up to 4% by weight. In the Bourns® products listed below we use Bourns® 2011 T1 which contains Lead by weight within the permitted percentage by weight under Exemption A(3) to EU RoHS Directive.

There has not been, nor will there be, any design, material, or manufacturing process change arising out of this clarification for the Bourns® products listed below. The form, fit, function, quality, reliability and production lead times will remain the same. The purchase order lead times and minimum / maximum order quantities will remain the same.

Consequently herewith, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificates of EU RoHS compliance to show release on Exemption A(3) for Lead as an alloying element in Bourns®.

Affected Product Series					
1400	1722	6518	82	93	
1500	1750	6519	83	96	
1501	1751	6574	84	97	
1540	1852	6575	85	99	
1541	51	6637	86	AMS22	
1545	52	6638	87	EC	
1545	53	6639	91	ES14	
1590	56	6657	92	EMS22	
1700	6534	6674	94	EN	
1701	6537	81	95	ES14	

Bourns is sending an ongoing Bourns® 2011 T1 with Lead free Bourns® in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Bourns® is implemented.

If you have any questions or need additional information, please feel free to contact Bourns Customer Service/Trade Sales.

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Bourns Product Change Notification SC2436 Nov 14 2024 · 51RBA R25 A10 A10L A10A10LA D18 D18L

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PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS


Compliance Riverside, California ... -B28-A18L 95A1D-C24-H18L 95A1D-C28-B15L

95A1D-C28-H15L 95A1D-G20-H06L 95A1D-G24-D20L 95A1D-G28-D25L **95A2A-**

B28-A10/A10L 95A2A-B28-B10/B10L 95A2A-G28-A13/A13L 95A2D-C24-A05/A05L

95C1A-E24-L15L 95C1C-D24...

lang:en score:19 filesize: 164.89 K page_count: 54 document date: 2024-11-18



PRODUCT UPDATE MEMO
SENSORS & CONTROLS

Clarification of EU RoHS Compliance

Riverside, California - November 14, 2024 - Effective immediately, the EU RoHS compliance determination for the Bourns® products listed below is clarified to show Lead as an alloying element in Bourns® alloys up to 4% by weight. In the Bourns® products listed below we use Bourns® 2011 T1 which contains Lead by weight within the permitted percentage by weight under Exemption A(3) to EU RoHS Directive.

There has not been, nor will there be, any design, material, or manufacturing process change arising out of this clarification for the Bourns® products listed below. The form, fit, function, quality, reliability and production lead times will remain the same. The purchase order lead times and minimum / maximum order quantities will remain the same.

Consequently herewith, Bourns is updating the applicable Material Declaration Sheets for the Bourns® products listed below to identify the Lead content and the applicable Certificates of EU RoHS compliance to show release on Exemption A(3) for Lead as an alloying element in Bourns®.

Affected Product Series					
1400	1722	6518	82	93	
1500	1750	6519	83	96	
1501	1751	6574	84	97	
1540	1852	6575	85	99	
1541	51	6637	86	AMS22	
1545	52	6638	87	EC	
1545	53	6639	91	ES14	
1590	56	6657	92	EMS22	
1700	6534	6674	94	EN	
1701	6537	81	95	ES14	

Bourns is sending an ongoing Bourns® 2011 T1 with Lead free Bourns® in the impacted Bourns® products. Bourns will issue Product Change Notices and updated Material Declaration Sheets when conversion to Lead free Bourns® is implemented.

If you have any questions or need additional information, please feel free to contact Bourns Customer Service/Trade Sales.

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Bourns Product Change SC2436 ADC 20241115 004 TTI Asia Nov 14 2024 · 51ABA C20 B15 B15L

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PRODUCT UPDATE MEMO SENSORS CONTROLS Clarification of EU RoHS

Compliance Riverside, California ... -B28-A18L 95A1D-C24-H18L 95A1D-C28-B15L

95A1D-C28-H15L 95A1D-G20-H06L 95A1D-G24-D20L 95A1D-G28-D25L **95A2A-**

B28-A10/A10L 95A2A-B28-B10/B10L 95A2A-G28-A13/A13L 95A2D-C24-A05/A05L

95C1A-E24-L15L 95C1C-D24...

lang:en score:18 filesize: 145.8 K page_count: 47 document date: 2024-11-15