



PRODUCT CHANGE NOTIFICATION

GAS DISCHARGE TUBES



2036-xx-SM Series Precision Gas Discharge Tube Surge Protector

Change to Manufacturing Location, Design and Materials

Riverside, California – July 10, 2026 – As part of Bourns' strategic initiative to strengthen its global manufacturing footprint, production of 2036-xx-SM Series Precision Gas Discharge Tube Surge Protectors will transition to an expanded manufacturing location, effective January 4, 2027. This initiative reflects the consolidation of production within Bourns' existing manufacturing network, improving operational efficiency and reinforcing supply chain resilience to better serve our customers' evolving demand. A list of affected part numbers is included on page 2.

The country of origin for the 2036-xx-SM Series Precision Gas Discharge Tube Surge Protector will change from Costa Rica to China. The product incorporates a revised design and updated materials aligned with the capabilities and processes of the new manufacturing location. As a result, the form, fit and function will change. Established and standardized quality controls, lot traceability, and continuous monitoring processes across Bourns' manufacturing locations ensure that the quality and reliability of the affected parts will remain unchanged.

The form, fit, and function are changing because the 2036-xx-SM Series Precision Gas Discharge Tube Surge Protector will have updated electrical and mechanical specifications due to part changes associated with the location change. These updated specifications are provided in the Electrical and Mechanical Specifications Changes Table and Impulse Sparkover Specification Changes Table at the end of this document.

These changes have been validated through Bourns' qualification processes, in alignment with applicable industry standards and market requirements. Bourns recommends that customers test the affected part numbers in their specific applications to verify satisfactory performance.

There are no changes to the Bourns® part numbering scheme, branding, safety certification or applicable test methods (ITU-T K.12, IEEE C62.31, IEC 61643-311) for the part numbers listed below.

Parts manufactured prior to January 4, 2027, will reflect the current specifications, while the updated values will apply to all parts from that date forward.

Implementation dates are as follows:

Date that manufacturing of products at the current location will cease: **December 18, 2026**

Date that deliveries of products manufactured at the new site will begin: **January 4, 2027**

First date code using the above changes: **2701**

Bourns may fulfill orders for part numbers listed in the Affected Part Number table from either the current or the new manufacturing site until the existing supply from the current location is exhausted. During this transition period, shipments will reflect the specifications of the producing site, and customers can identify the source through the lot code and date code on each shipment.

Users should verify that the described changes will not impact the performance of the product in their specific applications.

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Bourns will support customers throughout implementation of this transition. Product samples and technical documentation are available. Additional information can be obtained through Customer Service or Inside Sales.

Affected Part Numbers

2036-07-SMLF	2036-15-SM-RPLF	2036-25-SM-RP2LF	2036-40-SMLF	2036-47-SM-RPLF
2036-07-SM-RP2LF	2036-20-SMLF	2036-25-SM-RPLF	2036-40-SM-R2LF	2036-60-SMLF
2036-07-SM-RPLF	2036-20-SM-RP2LF	2036-30-SMLF	2036-40-SM-RPLF	2036-60-SM-R2LF
2036-09-SMLF	2036-20-SM-RPLF	2036-30-SM-R2LF	2036-42-SMLF	2036-60-SM-RPLF
2036-09-SM-RP2LF	2036-23-SMLF	2036-30-SM-RPLF	2036-42-SM-R2LF	
2036-09-SM-RPLF	2036-23-SM-RP2LF	2036-35-SMLF	2036-42-SM-RPLF	
2036-15-SMLF	2036-23-SM-RPLF	2036-35-SM-R2LF	2036-47-SMLF	
2036-15-SM-RP2LF	2036-25-SMLF	2036-35-SM-RPLF	2036-47-SM-R2LF	

Electrical and Mechanical Specification Changes

Specification	Characteristic	Previous Specification	New Specification
Electrical	Impulse Sparkover Rating Type	Typical	Maximum
Electrical	Impulse Sparkover @ 1000 V/μs	Check Impulse Specification Changes table	Check Impulse Specification Changes Table
Electrical	Impulse Sparkover @ 100 V/μs	Check Impulse Specification Changes table	Check Impulse Specification Changes Table
Electrical	Impulse Discharge Current 10/700 μs 500 Operations	200 A	To be excluded from Data Sheet
Electrical	Impulse Transverse Delay 1000 V/μs	< 75 ns	To be excluded from Data Sheet
Electrical	Glow-Arc Transition Current	< 0.5 A	1 A
Electrical	DC Holdover Voltage 135 V 52 V (2036-07, 2036-09) 80 V (2036-15)	< 150 ms	< 150 ms 52 V (2036-07, 2036-09)
Electrical	IR	10 GΩ	1 GΩ
Electrical	AC Discharge Current 60 HZ 1 Sec, 10 times	10 A	5 A
Mechanical	Length (mm)	7.3 ±0.26	7.2 ±0.3
Mechanical	Center Electrode Thickness (mm)	0.9 ±0.2	1.5
Packaging (Reel)	Reel Color	Black	Blue
Packaging (Bulk)	2036-xx-SMLF	Bag 250 Units Box 1000 units	PVC Tray 100 units Box 500 units
Visual Marking	Ink Marking	White/Green	Green Shade Variation

Impulse Sparkover Specification Changes

Model No.	Impulse Sparkover 100 V/μs		Impulse Sparkover 1000 V/μs	
	Previous (typical)	New (maximum)	Previous (typical)	New (maximum)
2036-07	250	600	525	700
2036-09	250	500	550	600
2036-15	350	500	500	600
2036-20	425	600	575	700
2036-23	450	600	600	700
2036-25	475	600	625	700
2036-30	500	650	650	750
2036-35	600	650	750	850
2036-40	650	700	825	900
2036-42	675	700	850	900
2036-47	750	800	950	950
2036-60	850	900	1100	1100

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

2036-07-SMLF
2036-07-SM-RP2LF
2036-07-SM-RPLF
2036-09-SMLF
2036-09-SM-RP2LF
2036-09-SM-RPLF
2036-15-SMLF
2036-15-SM-RP2LF
2036-15-SM-RPLF
2036-20-SMLF
2036-20-SM-RP2LF
2036-20-SM-RPLF
2036-23-SMLF
2036-23-SM-RP2LF
2036-23-SM-RPLF
2036-25-SMLF
2036-25-SM-RP2LF
2036-25-SM-RPLF
2036-30-SMLF
2036-30-SM-R2LF
2036-30-SM-RPLF
2036-35-SMLF
2036-35-SM-R2LF
2036-35-SM-RPLF
2036-40-SMLF
2036-40-SM-R2LF
2036-40-SM-RPLF
2036-42-SMLF
2036-42-SM-R2LF
2036-42-SM-RPLF
2036-47-SMLF
2036-47-SM-R2LF
2036-47-SM-RPLF
2036-60-SMLF
2036-60-SM-R2LF
2036-60-SM-RPLF