



PRODUCT CHANGE NOTIFICATION

GAS DISCHARGE TUBES



2038 Series Miniature Symmetrical 3-Electrode Surface Mount Gas Discharge Tube

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 2038 Series Miniature Symmetrical 3-Electrode Surface Mount Gas Discharge Tubes 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 2038 Series Miniature Symmetrical 3-Electrode Surface Mount Gas Discharge Tube 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 2038 Series Miniature Symmetrical 3-Electrode Surface Mount Gas Discharge Tube 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

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

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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.

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

2038-15-SMLF	2038-20-SM-RPLF	2038-30-SM-RP2LF	2038-42-SMLF	2038-47-SM-RPLF	2038-80-SM-RP2LF
2038-15-SM-RP2LF	2038-23-SMLF	2038-30-SM-RPLF	2038-42-SM-RP2LF	2038-60-SMLF	2038-80-SM-RPLF
2038-15-SM-RPLF	2038-23-SM-RP2LF	2038-35-SMLF	2038-42-SM-RPLF	2038-60-SM-RP2LF	2038-110-SMLF
2038-20-SMLF	2038-23-SM-RPLF	2038-35-SM-RP2LF	2038-47-SMLF	2038-60-SM-RPLF	2038-110-SM-RP2LF
2038-20-SM-RP2LF	2038-30-SMLF	2038-35-SM-RPLF	2038-47-SM-RP2LF	2038-80-SMLF	2038-110-SM-RPLF

Electrical and Mechanical Specification Changes

Specification	Characteristic	Previous Specification	New Specification
Electrical	Impulse Sparkover Reference	Typical	Maximum
Electrical	Impulse Sparkover @ 1000 V/ μ s	Check Comparative Table	Check Comparative Table
Electrical	Impulse Sparkover @ 100 V/ μ s	Check Comparative Table	Check Comparative Table
Electrical	Impulse Discharge Current 10/1000 μ s 1500 Operations	10 A	To be excluded from Data Sheet
Electrical	Impulse Discharge Current 10/700 μ s 500 Operations	200 A	To be excluded from Data Sheet
Electrical	Impulse Transverse Delay 100 V/ μ s	< 75 ns	To be excluded from Data Sheet
Electrical	Glow-Arc Transition Current	< 0.5 A	1 A
Electrical	DC Holdover Voltage 135 V 80 V (2038-15)	< 150 ms	< 150 ms 52 V (2038-75, 2038-90) 80 V (2038-120)
Electrical	IR	10 G Ω	1 G Ω
Mechanical	Length (mm)	7.5 $\pm$ 0.26	7.6 $\pm$ 0.3
Mechanical	Square Electrode Thickness (mm)	0.51 $\pm$ 0.05	0.4
Mechanical	Center electrode thickness (mm)	1.3 $\pm$ 0.13	1.5
Packaging	Reel color	Black	Blue
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)
2038-15	350	500	500	600
2038-20	425	600	575	700
2038-23	450	600	600	700
2038-30	500	650	650	750
2038-35	600	650	750	850
2038-42	675	700	850	900
2038-47	750	800	950	950
2038-60	850	900	1100	1100
2038-80	1150	1150	1400	1400
2038-110	1500	1450	1700	1750

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

2038-15-SMLF
2038-15-SM-RP2LF
2038-15-SM-RPLF
2038-20-SMLF
2038-20-SM-RP2LF
2038-20-SM-RPLF
2038-23-SMLF
2038-23-SM-RP2LF
2038-23-SM-RPLF
2038-30-SMLF
2038-30-SM-RP2LF
2038-30-SM-RPLF
2038-35-SMLF
2038-35-SM-RP2LF
2038-35-SM-RPLF
2038-42-SMLF
2038-42-SM-RP2LF
2038-42-SM-RPLF
2038-47-SMLF
2038-47-SM-RP2LF
2038-47-SM-RPLF
2038-60-SMLF
2038-60-SM-RP2LF
2038-60-SM-RPLF
2038-80-SMLF
2038-80-SM-RP2LF
2038-80-SM-RPLF
2038-110-SMLF
2038-110-SM-RP2LF
2038-110-SM-RPLF