



PRODUCT CHANGE NOTIFICATION

GAS DISCHARGE TUBES

REVISED JULY 10, 2026



Bourns® 2027 Series 2-Pole Gas Discharge Tube

Change to Manufacturing Location

Riverside, California – July 9, 2026 – As part of Bourns' ongoing efforts to optimize its manufacturing operations, effective January 2, 2027, Bourns will change the manufacturing location for the 2027 Series 2-Pole Gas Discharge Tube. This change is being made based on Bourns' determination that realigning production for this product line will best support long-term cost efficiency, supply continuity, and customer service levels. A list of affected part numbers is included below.

Affected Part Numbers

2027-07-SMLF	2027-20-SM-RP2LF	2027-35-SMLF	2027-47-SM-RP2LF	2027-A-20-SM-RPLF
2027-07-SM-RP3LF	2027-20-SM-RP3LF	2027-35-SM-RPLF	2027-47-SM-RP3LF	2027-A-23-SMLF
2027-07-SM-RP2LF	2027-23-SMLF	2027-35-SM-RP2LF	2027-60-SMLF	2027-A-23-SM-RPLF
2027-07-SM-RPLF	2027-23-SM-RPLF	2027-35-SM-RP3LF	2027-60-SM-RP3LF	2027-A-35-SMLF
2027-09-SMLF	2027-23-SM-RP2LF	2027-40-SMLF	2027-60-SM-RP2LF	2027-A-35-SM-RPLF
2027-09-SM-RPLF	2027-23-SM-RP3LF	2027-40-SM-RPLF	2027-60-SM-RPLF	2027-A-40-SMLF
2027-09-SM-RP2LF	2027-25-SMLF	2027-40-SM-RP2LF	2027-60-SM-RPLF-PF	2027-A-40-SM-RPLF
2027-09-SM-RP3LF	2027-25-SM-RP2LF	2027-40-SM-RP3LF	2027-A-07-SMLF	2027-A-42-SMLF
2027-15-SMLF	2027-25-SM-RPLF	2027-42-SMLF	2027-A-07-SM-RPLF	2027-A-42-SM-RPLF
2027-15-SM-RPLF	2027-25-SM-RP3LF	2027-42-SM-RPLF	2027-A-09-SMLF	2027-A-47-SMLF
2027-15-SM-RP2LF	2027-30-SMLF	2027-42-SM-RP2LF	2027-A-09-SM-RPLF	2027-A-47-SM-RPLF
2027-15-SM-RP3LF	2027-30-SM-RPLF	2027-42-SM-RP3LF	2027-A-15-SMLF	2027-A-60-SMLF
2027-20-SMLF	2027-30-SM-RP2LF	2027-47-SMLF	2027-A-15-SM-RPLF	2027-A-60-SM-RPLF
2027-20-SM-RPLF	2027-30-SM-RP3LF	2027-47-SM-RPLF	2027-A-20-SMLF	

The new manufacturing site produces the 2027 Series 2-Pole Gas Discharge Tubes using a revised design and materials. As a result, certain electrical and mechanical specifications will be updated. The revised specifications are detailed in the tables below. Bourns recommends that customers evaluate the affected part numbers in their specific applications to confirm compatibility with the new specifications.

While the part numbering scheme remains unchanged, the form, fit, and certain functional parameters of the affected part numbers will differ from those produced at the current site, as outlined in the specification change table below. The country of origin will change from Costa Rica to China. Traceability will be maintained through lot code and date code.

The new manufacturing site has successfully completed Bourns' qualification requirements, including reliability validation, process capability assessments, and quality system reviews. With established quality controls, lot traceability, and continuous monitoring processes in place, Bourns is committed to maintaining the same level of quality and reliability currently provided by the existing manufacturing site. Although

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

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

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certain specifications have been revised, Bourns has verified that these products continue to meet applicable industry standards and internal reliability requirements for their intended applications.

As a result of this change, certain electrical and mechanical specifications for the affected part numbers will be updated as of January 2027. The revised parameters are detailed in the table below.

Electrical and Mechanical Specifications Changes			
Specification	Model	Previous Specifications	New Specifications
Electrical	DC Sparkover @ 100 V/s	(+/-) 15% V	(+/-) 20% V
Electrical	Impulse Sparkover @ 1000 V/us	Typical	Maximum
Electrical	Impulse Sparkover @ 1000 V/us	Check comparative table	Check comparative table
Electrical	Impulse Sparkover @ 100 V/us	Check comparative table	Check comparative table
Electrical	Discharge Current 10/1000µs	100A	100 A@500 op
Electrical	Impulse Discharge Current 10/700 µs 500 operations	100A	To be excluded
Electrical	Glow Voltage 10 mA	~ 70 V	xx
Electrical	Glow-Arc Transition Current	< 0.5 A	1A
Electrical	DC Holdover Voltage 135 V		
52 V (2035-09)			
80 V (2035-15)	< 150 ms	< 150 ms	
52 V (2027-70 to 2027-150)			
80 V (2027-230)			
Electrical	Capacitance	<1 pF	<1.5 pF
Electrical	IR	10 GΩ	1 GΩ
Electrical	Length (mm)	6.4 +/-0.3	6.0 +/-0.2
Mechanical	Diameter (mm)	8.0 +/-0.2	8.3 +/-0.15
Mechanical	Square electrode thickness (mm)	0.76 +/-0.08	0.5 +/-0.1
Mechanical	Solder pad width (mm)	1.5	1.2
Mechanical	Solder pad height (mm)	8.6	9
Mechanical	Solder pad separation (mm)	4.6	4.4
Mechanical	Solder pad overall width (mm)	7.6	6.8
Packaging	Reel pitch (mm)	16	12
Packaging	Reel color	Blue	Blue shade variation

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

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

Impulse Sparkover Specification Changes				
	Impulse Sparkover 1000 V/μs		Impulse Sparkover 100 V/μs	
Model No.	Previous (typical)	New (maximum)	Previous (typical)	New (maximum)
2027-07	300 V	500 V	500 V	600 V
2027-09	300 V	500 V	500 V	600 V
2027-15	350 V	500 V	575 V	700 V
2027-20	400 V	500 V	600 V	700 V
2027-23	450 V	500 V	675 V	700 V
2027-25	475 V	500 V	700 V	700 V
2027-30	550 V	700 V	800 V	800 V
2027-35	600 V	700 V	875 V	800 V
2027-40	650 V	800 V	925 V	900 V
2027-42	675 V	900 V	950 V	1000 V
2027-47	725 V	900 V	1000 V	1000 V
2027-60	800 V	1000 V	1100 V	1100 V
(1) Previous = typical values. New = maximum values.				

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

Parts manufactured prior to January 2, 2027, will continue to reflect the previous specification values. The updated specifications will apply to all shipments on and after that date.

Samples are available upon request. Bourns recommends that customers test the affected part numbers in their specific applications to verify satisfactory performance.

Implementation dates are as follows:

Date that deliveries of products manufactured at the current site will cease: **December 31, 2026**

Date that deliveries of products manufactured at the new site will begin: **January 2, 2027**

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

Beginning January 2, 2027, Bourns may fulfill orders for the affected part numbers from either the current or the new manufacturing site. 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.

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2027-07-SMLF
2027-07-SM-RP3LF
2027-07-SM-RP2LF
2027-07-SM-RPLF
2027-09-SMLF
2027-09-SM-RPLF
2027-09-SM-RP2LF
2027-09-SM-RP3LF
2027-15-SMLF
2027-15-SM-RPLF
2027-15-SM-RP2LF
2027-15-SM-RP3LF
2027-20-SMLF
2027-20-SM-RPLF
2027-20-SM-RP2LF
2027-20-SM-RP3LF
2027-23-SMLF
2027-23-SM-RPLF
2027-23-SM-RP2LF
2027-23-SM-RP3LF
2027-25-SMLF
2027-25-SM-RP2LF
2027-25-SM-RPLF
2027-25-SM-RP3LF
2027-30-SMLF
2027-30-SM-RPLF
2027-30-SM-RP2LF
2027-30-SM-RP3LF
2027-35-SMLF
2027-35-SM-RPLF
2027-35-SM-RP2LF
2027-35-SM-RP3LF
2027-40-SMLF
2027-40-SM-RPLF
2027-40-SM-RP2LF
2027-40-SM-RP3LF
2027-42-SMLF
2027-42-SM-RPLF
2027-42-SM-RP2LF
2027-42-SM-RP3LF
2027-47-SMLF
2027-47-SM-RPLF
2027-47-SM-RP2LF
2027-47-SM-RP3LF

2027-60-SMLF
2027-60-SM-RP3LF
2027-60-SM-RP2LF
2027-60-SM-RPLF