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Product Change Notification



Product Group: DI/Thursday May 1, 2025/PCN-DI-00677-2025-REV-0

Antimony-Free Core Material Replacement on -11, -1A, -1L Series of IHLP Power Inductors

For further information, please contact your regional Vishay office.

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Description of Change: The core material supply for -11 (commercial), -1A (automotive), and -1L (tin/lead) series of power inductors (and other series variants) has become less reliable due to export restrictions on antimony from China. To ensure uninterrupted production and to comply with stricter environmental regulations, Vishay is transitioning to a new core material having a different iron alloy blend.

The new material is a drop-in replacement and can be globally sourced from multiple existing suppliers. Additionally, it is free of antimony (also called diantimony trioxide), making it more environmentally friendly and compliant with Vishay GREEN requirements. The Material Declaration Sheet (MDS) will be updated with the new composition.

Product shipments with the new material will begin on the date indicated below or until original supply runs out. The part numbers will remain the same. Affected inductor families: IHLP, IHLW, IHLS, IHLM, and IHLG.

Reason for Change: China's export restrictions, reduced supply on original core material, and continuing commitment towards environmentally friendly practices.

Expected Influence on Quality/Reliability/Performance: No change to electrical or mechanical datasheet specifications (inductance, resistance, current handling, size, voltage rating, and temperature stability). However, the new material has improved dielectric performance and 20% lower core loss than previous material. As a result, the customer can expect improved reliability, lower component temperature rise, and improved efficiency during circuit operation. Performance comparison graphs for both materials are shown on the following pages.

Part Numbers/Series/Families Affected: Please see materials list on the succeeding page.

Vishay Brand(S): Vishay Dale

Time Schedule:

Start Shipment Date: Sunday September 14, 2025

Sample Availability: Since electrical and mechanical specifications are not changing, samples will NOT be available unless special approval is granted by Vishay. If approved, please allow 8-12 weeks for sample lead time.

Product Identification: No change to existing part numbers. Lot traceability of the old and new material will be performed by Vishay internally.



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Qualification Data: Performance curves below. The new material has been tested across wide range of inductances and case sizes and passes automotive grade reliability testing as outlined in https://www.vishay.com/docs/34085/aec-q200_vs_vishayqualificationplan_standard.pdf

This PCN is considered approved, without further notification, unless we receive specific customer concerns before Friday May 30, 2025 or as specified by contract.

Issued By: Mariya Sachek, Product Marketing Engineer, mariya.sachek@vishay.com



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IHLP1616ABER1R0M11	IHLP1616ABER1R0M1A	IHLP1616ABER1R2M11	IHLP1616ABER1R5M11	IHLP1616ABER2R2M11
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IHLP1616BZER3R3M1A	IHLP1616BZER4R7M11	IHLP1616BZER4R7M1A	IHLP1616BZERR10M11	IHLP1616BZERR10M1A
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IHLP2020ABERR22M11	IHLP2020AGER1R2M11	IHLP2020AHER100M11	IHLP2020AHER4R7M11	IHLP2020AHER9R0M11
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IHLP2020BZER3R3M1A	IHLP2020BZER4R7M11	IHLP2020ABERR33M11	IHLP2020ABERR47M11	IHLP2020AEER2R2M11
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IHLP2020BZEK3R3M11	IHLP2020BZEK3R3M1A	IHLP2020CZEK1R5M11	IHLP2020CZEK1R5M1A	IHLP2020CZEK220M11
IHLP2020CZEK2R2M11	IHLP2020CZEK2R2M1A	IHLP2020CZEK3R3M11	IHLP2020CZEK3R3M1A	IHLP2020CZEK4R7M11
IHLP2020CZEK4R7M1A	IHLP2020CZEK5R6M11	IHLP2020CZEK5R6M1A	IHLP2020CZEK6R8M11	IHLP2020CZEK6R8M1A
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IHLP2020BZEKR33M1A	IHLP2020BZEKR47M11	IHLP2020BZEKR47M1A	IHLP2020CZEKR22M1A	IHLP2020CZEKR33M11
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IHLP2525AHER6R8M11	IHLP2525AHERR10M11	IHLP2525AHERR15M11	IHLP2525AHERR22M11	IHLP2525AHERR33M11
IHLP2525AHERR47M11	IHLP2525AHERR68M11	IHLP2525AHERR82M11	IHLP2525BDER2R2M11	IHLP2525BDER330M11
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IHLP3232DZEK4R7M11	IHLP3232DZER3R3M11	IHLP4040DZER101M1A	IHLP4040DZER330M1A	IHLP4040DZERR22M11
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IHLP6767GZER100M1A	IHLP6767GZER6R8M11	IHLP3232CZEK4R7M11	IHLP3232CZER6R8M11	IHLP3232DZEK5R6M11
IHLP3232DZER4R7M11	IHLP4040DZER150M1A	IHLP4040DZER3R3M1A	IHLP4040DZERR24M1A	IHLP404WDZER220M1A
IHLP6767DZER470M11	IHLP6767GZEK470M1A	IHLP6767GZER101M11	IHLP6767GZER6R8M1A	IHLP3232CZEK4R7M1A
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IHLP6767GZER820M11	IHLP3232CZEK6R8M11	IHLP3232CZER8R2M11	IHLP3232DZEK6R8M11	IHLP3232DZER5R6M11
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IHLP5050FDER2R0M11	IHLP6767DZER4R7M1A	IHLP6767GZEK560M11	IHLP6767GZER150M1A	IHLP6767GZER8R2M11
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IHLP5050EZER150M11	IHLP5050FDEK3R3M11	IHLP5050FDER2R2M11	IHLP6767DZER5R6M11	IHLP6767GZEK560M1A
IHLP6767GZER180M11	IHLP6767GZER8R2M1A	IHLP3232CZEK8R2M1A	IHLP3232CZERR22M1A	IHLP3232DZEK8R2M1A
IHLP3232DZER6R8M1A	IHLP5050CEER2R2M1A	IHLP5050EZER220M11	IHLP5050FDEK470M11	IHLP5050FDER3R3M11
IHLP6767DZER5R6M1A	IHLP6767GZEK5R6M11	IHLP6767GZER1R0M11	IHLP6767GZERR33M11	IHLP3232CZEKR22M11
IHLP3232CZERR33M11	IHLP3232DZEKR22M11	IHLP3232DZER8R2M11	IHLP5050CEERR36M11	IHLP5050EZER330M11
IHLP5050FDEK5R6M1A	IHLP5050FDER5R6M1A	IHLP6767DZER6R8M11	IHLP6767GZEK5R6M1A	IHLP6767GZER1R0M1A



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Product Change Notification



Product Group: DI/Thursday May 1, 2025/PCN-DI-00677-2025-REV-0

IHLP6767GZERR33M1A	IHLP3232CZEKR22M1A	IHLP3232CZERR33M1A	IHLP3232DZEKR22M1A	IHLP3232DZER8R2M1A
IHLP5050EZEK100M11	IHLP5050EZER470M11	IHLP5050FDEK680M11	IHLP5050FDER680M11	IHLP6767DZER6R8M1A
IHLP6767GZEK680M11	IHLP6767GZER1R5M11	IHLP6767GZERR47M11	IHLP3232CZEKR33M11	IHLP3232CZERR47M11
IHLP3232DZEKR33M11	IHLP3232DZERR22M11	IHLP5050EZEK150M11	IHLP5050EZER470M1A	IHLP5050FDEK6R8M1A
IHLP5050FDER6R8M1A	IHLP6767GZEK100M11	IHLP6767GZEK680M1A	IHLP6767GZER1R5M1A	IHLP6767GZERR47M1A
IHLP3232CZEKR33M1A	IHLP3232CZERR47M1A	IHLP3232DZEKR33M1A	IHLP3232DZERR22M1A	IHLP5050EZEK220M11
IHLP5050EZER5R6M1A	IHLP5050FDEK8R2M1A	IHLP5050FDER8R2M1A	IHLP6767GZEK100M1A	IHLP6767GZEK6R8M11
IHLP6767GZER1R8M11	IHLP6767GZERR56M11	IHLP3232CZEKR47M11	IHLP3232CZERR68M11	IHLP3232DZEKR47M11
IHLP3232DZERR33M11	IHLP5050EZEK330M11	IHLP5050FDEK100M11	IHLP5050FDEKR47M1A	IHLP5050FDERR47M1A
IHLP6767GZEK101M11	IHLP6767GZEK6R8M1A	IHLP6767GZER220M11	IHLP6767GZERR56M1A	IHLP3232CZEKR47M1A
IHLP3232CZERR68M1A	IHLP3232DZEKR47M1A	IHLP3232DZERR33M1A	IHLP5050EZEK470M11	IHLP5050FDEK100M1A
IHLP5050FDER100M11	IHLP6767GZEK101M1A	IHLP6767GZEK820M11	IHLP6767GZER220M1A	IHLP6767GZERR68M11
IHLP3232CZEKR68M11	IHLP3232CZERR82M11	IHLP3232DZEKR68M11	IHLP3232DZERR47M11	IHLP6767GZEK150M11
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IHLP3232DZEKR68M1A	IHLP3232DZERR47M1A	IHLP6767GZEK150M1A	IHLP6767GZEK8R2M11	IHLP6767GZER2R2M11
IHLP6767GZERR82M1A	IHLP3232CZEKR82M11	IHLP3232DZEK100M11	IHLP3232DZEKR82M11	IHLP3232DZERR68M11
IHLP6767GZEK180M11	IHLP6767GZEK8R2M1A	IHLP6767GZER2R2M1A	IHLP3232CZEKR82M1A	IHLP3232DZEK100M1A
IHLP3232DZEKR82M1A	IHLP3232DZERR68M1A	IHLP1212BZRY1R0M1L	IHLP1212BZRYR22M1L	IHLP1212BZRYR56M1L
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IHLP1212BZSL2R2M1L	IHLP1212BZSLR22M1L	IHLP1212BZSLR56M1L	IHLP1616ABRY2R2M1L	IHLP1616ABRZ1R0M1L
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IHLP1616BZRZ2R2M1L	IHLP1616BZRZ3R3M1L	IHLP1616BZRZ4R7M1L	IHLP1616BZSL1R0M1L	IHLP1616BZSL3R3M1L
IHLP1616BZSL4R7M1L	IHLP2020CZRY3R3M1L	IHLP2020CZRY5R6M1L	IHLP2020CZRZ100M1L	IHLP2020CZRZ1R0M1L
IHLP2020CZRZ220M1L	IHLP2020CZRZ3R3M1L	IHLP2020CZRZ4R7M1L	IHLP2020CZRZ5R6M1L	IHLP2020CZRZR10M1L
IHLP2020CZRZR47M1L	IHLP2020CZSL100M1L	IHLP2020CZSL220M1L	IHLP2020CZSL2R2M1L	IHLP2020CZSL3R3M1L
IHLP2020CZSL5R6M1L	IHLP2525CZRY220M1L	IHLP2525CZRZ100M1L	IHLP2525CZRZ150M1L	IHLP2525CZRZ220M1L
IHLP2525CZRZ2R2M1L	IHLP2525CZRZ3R3M1L	IHLP2525CZRZ4R7M1L	IHLP2525CZSL220M1L	IHLP2525CZSL2R2M1L
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IHLP3232CZRZ330M1L	IHLP3232CZSL150M1L	IHLP3232DZLM100M1L	IHLP3232DZLM220M1L	IHLP3232DZLM330M1L
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IHLP4040DZRZ100M1L	IHLP4040DZRZ101M1L	IHLP4040DZRZ1R0M1L	IHLP4040DZRZ1R8M1L	IHLP4040DZRZ220M1L
IHLP4040DZRZ2R0M1L	IHLP4040DZRZ2R2M1L	IHLP4040DZRZ330M1L	IHLP4040DZRZ3R3M1L	IHLP4040DZRZ470M1L
IHLP4040DZRZ6R8M1L	IHLP4040DZRZR24M1L	IHLP4040DZRZR36M1L	IHLP4040DZRZR47M1L	IHLP4040DZSL100M1L
IHLP4040DZSL101M1L	IHLP4040DZSL1R0M1L	IHLP4040DZSL220M1L	IHLP4040DZSL2R0M1L	IHLP4040DZSL330M1L
IHLP4040DZSL470M1L	IHLP4040DZSL4R7M1L	IHLP4040DZSL6R8M1L	IHLP4040DZSLR36M1L	IHLP5050FDRZ4R7M1L
IHLP5050FDRZ8R2M1L	IHLP6767GZRZ101M1L	IHLP6767GZRZ150M1L	IHLP6767GZRZ1R5M1L	IHLP6767GZRZ330M1L
IHLP6767GZRZ470M1L	IHLP6767GZRZ680M1L	IHLP6767GZRZ6R8M1L	IHLP6767GZSL101M1L	IHLP6767GZSL150M1L
IHLP6767GZSL220M1L	IHLG2525CZEK220M1D	IHLG2525CZER220M1D	IHLP1616BZER4R7M1N	IHLP2020BZEK2R2M19
IHLP2020BZEK3R3M19	IHLP2020BZER2R2M19	IHLP2020BZER3R3M19	IHLP2020CZEK1R5M1S	IHLP2020CZEK220M1N
IHLP2020CZER1R5M1S	IHLP2020CZER220M1N	IHLP3232DZEK6R8M19	IHLP3232DZER6R8M19	IHLP4040CZER6R8M1S
IHLP4040DAER1R8M1D	IHLP4040DAERR78M1D	IHLP4040DZER100M14	IHLP4040DZER150M14	IHLP4040DZER1R0M1S
IHLP4040DZER1R8M1S	IHLP4040DZER220M14	IHLP4040EZER1R2M1S	IHLP5050FDEK220M1N	IHLP5050FDER220M1N
IHLP2525EZER150M1V	IHLP2525EZER220M1V	IHLP2525EZER270M1V	IHLP2525EZER390M1V	IHLP2525EZER470M1V
IHLP2525EZER680M1V	IHLP5050FDEK100M1G	IHLP5050FDER100M1G	IHLM2525CZER220M11	

Datasheet Performance Comparison Between Old and New 1A Material

Saturation, Temperature Rise, L/Q vs. Frequency

Datasheet specification is not changing. Graphs below are reference only. Additional test data available on request.

Note: the 2A graphs represent the **NEW** core material. Part number will remain as 1A after the new material is adopted.

