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September 12, 2025

**PCN # ESW490-63 Low Power Thyristor TO-220(Isolated and Non-Isolated) and TO-263 (D2Pak) Package Alternate Molding Compound Approval**

To our valued customers,

Littelfuse would like to notify you of a newly approved molding compound for all TO-220 (Isolated and Non-Isolated) and TO-263 (D2Pak) packaged Low Power Thyristor products. The new molding compound is fully approved internally. This change does not affect UL certification of electrical isolation applied to the TO-220 isolated package under file # E71639. There are no changes to fit, form, and function of the finished product. Slight color changes only because of the new compound.

Please see the attached documentation for change detail and affected part numbers.

All affected products have been fully qualified in accordance with established performance and reliability criteria. The attached pages summarize the qualification results. Full qualification data and/or samples will be available upon request.

**Form, fit, function changes:** None

**Part number changes:** None

**Effective date:** December 11, 2025

**Replacement products:** N/A

**Last time buy:** N/A

This notification is for your information and acknowledgment. If you require specific data or product samples to certify this change, please contact Littelfuse within 90 days of the notification date.

If you have any other questions or concerns, please contact your local sales team or Maggie XU, Technical Support Manager of Low Power Thyristor Discrete.

We value your business and look forward to assisting you whenever possible.

Best Regards,

Technical Support Manager  
Power Thyristor/Diode Discrete  
Semiconductor Business Unit, Wuxi, China



800 E. Northwest Highway Des Plaines, IL 60016

## Product/Process Change Notice (PCN)

**PCN#:** ESW490-63    **Date:** Sep 12<sup>th</sup>, 2025

**Product Identification:**

All TO-220(Isolated and Non-Isolated) and TO-263(D2PAK) packaged Low Power Thyristor products

**Implementation Date for Change:**

December 11, 2025

### Contact Information

**Name:**

Title: Technical Support Manager

**Phone #:**

**Fax#:**

**E-mail:**

### Category of Change:

- Assembly Process
- Data Sheet
- Technology
- Discontinuance/Obsolescence
- Equipment
- Manufacturing Site
- Raw Material
- Testing
- Fabrication Process
- Other: \_\_\_\_\_

### Description of Change:

Approve a new molding compound for all TO-220(Isolated and Non-Isolated) and TO-263(D2Pak) packaged Low Power Thyristor products.

There are no changes to fit, form & function of the finished product. The affected products have been fully qualified in accordance with all established criteria for performance and reliability

All relevant detail is included in the supplemental pages.

### Important Dates:

Qualification Samples Available: 9/12/2025, sample available upon request

Last Time Buy:

Final Qualification Data Available: 9/12/2025

Date of Final Product Shipment:

### Method of Distinguishing Changed Product

- Product Mark,
- Date Code, Traceability data available upon request
- Other,

### Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:

N/A

### LF Qualification Plan/Results:

All affected products have been fully qualified in accordance with established performance and reliability criteria.

**Customer Acknowledgement of Receipt:** Littelfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information. Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days of this notice. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of the change.



# PCN Report

Prepared By :

Date : Sep 12<sup>th</sup>, 2025  
 Products : TO-220/TO-263 Packaged Low Power Thyristor Product  
 Revision : A

## 1.0 Objective:

This report documents the qualification of a second source material for the Power product, aimed at enhancing business continuity. The following sections summarize the physical, electrical, and reliability tests conducted on the qualification lots to ensure the material meets required standards.

## 2.0 Applicable Products:

TO-220 (Isolated and Non-Isolated) and TO-263 (D2Pak) packaged Low Power Thyristor Products. Please see the attachments for a full list of affected part numbers.

## 3.0 Physical Differences/Changes:

There is no change in mechanical specification or package outline dimension (POD).

There is slight change in surface texture which affects visual appearance of epoxy body and laser marking, but difference is visually negligible.

## 4.0 Qualification Test Result

All samples passed parametric and reliability test standard by Littelfuse.

Description	Sample P/N	Sample QTY'	Littelfuse test Ref#	Contents/ Conditions	Standard	Result Summary
Electrical Parameters	D4020LTP	415	TR24-07-010057	I <sub>DRM</sub> /I <sub>RRM</sub> I <sub>GT</sub> V <sub>GT</sub> I <sub>H</sub> V <sub>T</sub> I <sub>TSM</sub> R <sub>THJC</sub> I <sub>GM</sub> di/dt	Per Datasheet	100% meet published spec.
	D12KD6015LTP	426	TR24-07-010058			
	DK025LTP	415	TR24-07-010061			
	L4004R3TP	415	TR23-11-005163			
	BTA12-600BW3GF	415	TR23-11-005164			
	SK025LTP	415	TR23-11-005164			
	QK025L6TP	415	TR23-12-005507			
	QV8025LH4TP	415	TR24-02-006869			
	SV6020L1QTP-N	415	TR24-02-006869			
	QJ8030RH4TP	415	TR24-03-007476			
	QV8025NH5RP	415	TR24-03-007574			
	S6006NS2TP	415	TR23-12-005378			
	S4040NQR	415	TR23-12-005507			
	QK025NH6TP	415	TR23-12-005507			
SJ4012N1TP	415	TR24-03-007155				
AC Blocking (HTRB)	D4020LTP	77	TR24-01-006545	T <sub>j</sub> , 1008hr, Reverse biased at peak AC voltage	MIL-STD-750	PASS
	D12KD6015LTP	77	TR24-02-006898			
	DK025LTP	77	TR24-01-006547			
	L4004R3TP	77	TR23-11-005163			
	BTA12-600BW3GF	77	TR23-11-005164			
	SK025LTP	77	TR23-11-005164			
	QK025L6TP	77	TR23-12-005507			
QV8025LH4TP	77	TR24-02-006869				

	SV6020L1QTP-N	77	TR24-02-006869			
	QJ8030RH4TP	77	TR24-03-007476			
	QV8025NH5RP	77	TR24-03-007574			
	S6006NS2TP	77	TR23-12-005378			
	S4040NQR	77	TR23-12-005507			
	QK025NH6TP	77	TR23-12-005507			
	SJ4012N1TP	77	TR24-03-007155			
High Humidity High Temp, Reverse Bias (H3TRB)	D4020LTP	77	TR24-01-006545	1008 hours; 160V & 320V - DC: 85°C; 85% relative humidity	JESD22-A101	PASS
	D12KD6015LTP	77	TR24-02-006898			
	DK025LTP	77	TR24-01-006547			
	L4004R3TP	77	TR23-11-005163			
	BTA12-600BW3GF	77	TR23-11-005164			
	SK025LTP	77	TR23-11-005164			
	QK025L6TP	77	TR23-12-005507			
	QV8025LH4TP	77	TR24-02-006869			
	SV6020L1QTP-N	77	TR24-02-006869			
	QJ8030RH4TP	77	TR24-03-007476			
	QV8025NH5RP	77	TR24-03-007574			
	S6006NS2TP	77	TR23-12-005378			
	S4040NQR	77	TR23-12-005507			
	QK025NH6TP	77	TR23-12-005507			
SJ4012N1TP	77	TR24-03-007155				
Unbiased Highly Accelerated Stress Test (UHAST)	D4020LTP	77	TR24-01-006545	96 hours at TA=130°C/85% RH.	JESD22-A-118	PASS
	D12KD6015LTP	77	TR24-02-006898			
	DK025LTP	77	TR24-01-006547			
	L4004R3TP	77	TR23-11-005163			
	BTA12-600BW3GF	77	TR23-11-005164			
	SK025LTP	77	TR23-11-005164			
	QK025L6TP	77	TR23-12-005507			
	QV8025LH4TP	77	TR24-02-006869			
	SV6020L1QTP-N	77	TR24-02-006869			
	QJ8030RH4TP	77	TR24-03-007476			
	QV8025NH5RP	77	TR24-03-007574			
	S6006NS2TP	77	TR23-12-005378			
	S4040NQR	77	TR23-12-005507			
	QK025NH6TP	77	TR23-12-005507			
SJ4012N1TP	77	TR24-03-007155				
Temperature Cycling (TC)	D4020LTP	77	TR24-01-006545	-55°C&150°C (air to air) Dwell time 15mins, 1000cycles	JESD22-A104	PASS
	D12KD6015LTP	77	TR24-02-006898			
	DK025LTP	77	TR24-01-006547			
	L4004R3TP	77	TR23-11-005163			
	BTA12-600BW3GF	77	TR23-11-005164			
	SK025LTP	77	TR23-11-005164			
	QK025L6TP	77	TR23-12-005507			
	QV8025LH4TP	77	TR24-02-006869			
	SV6020L1QTP-N	77	TR24-02-006869			
	QJ8030RH4TP	77	TR24-03-007476			
	QV8025NH5RP	77	TR24-03-007574			
	S6006NS2TP	77	TR23-12-005378			
	S4040NQR	77	TR23-12-005507			
	QK025NH6TP	77	TR23-12-005507			
SJ4012N1TP	77	TR24-03-007155				
Intermittent Operational Life (IOL)	D4020LTP	77	TR24-01-006545	TA:25°C, TJ:125°C (ΔTJ=100°C), TON/OFF: 4 minutes, 15,000cycles	MIL-STD-750	PASS
	D12KD6015LTP	77	TR24-02-006898			
	DK025LTP	77	TR24-01-006547			
	L4004R3TP	77	TR23-11-005163			
	BTA12-600BW3GF	77	TR23-11-005164			
	SK025LTP	77	TR23-11-005164			
	QK025L6TP	77	TR23-12-005507			
	QV8025LH4TP	77	TR24-02-006869			
	SV6020L1QTP-N	77	TR24-02-006869			
	QJ8030RH4TP	77	TR24-03-007476			
	QV8025NH5RP	77	TR24-03-007574			
	S6006NS2TP	77	TR23-12-005378			
	S4040NQR	77	TR23-12-005507			
	QK025NH6TP	77	TR23-12-005507			
SJ4012N1TP	77	TR24-03-007155				
Resistance to Solder Heat (RSH)	D4020LTP	30	TR24-01-006545	260°C, 10 secs /270°C, 7 secs	JESD22-B-106 JESD22-A-111	PASS
	D12KD6015LTP	30	TR24-02-006898			
	DK025LTP	30	TR24-01-006547			



	L4004R3TP	30	TR23-11-005163			
	BTA12-600BW3GF	30	TR23-11-005164			
	SK025LTP	30	TR23-11-005164			
	QK025L6TP	30	TR23-12-005507			
	QV8025LH4TP	30	TR24-02-006869			
	SV6020L1QTP-N	30	TR24-02-006869			
	QJ8030RH4TP	30	TR24-03-007476			
	QV8025NH5RP	30	TR24-03-007574			
	S6006NS2TP	30	TR23-12-005378			
	S4040NQRP	30	TR23-12-005507			
	QK025NH6TP	30	TR23-12-005507			
	SJ4012N1TP	30	TR24-03-007155			
MSL	S6006NS2TP	11	TR23-12-005378		J-STD-020	PASS
	QK025NH6TP	11	TR24-05-008976			
	QV8025NH5RP	11	TR24-03-007574			

### 5.0 Recommendations & Conclusions:

Based on the above qualification test results, Littelfuse concluded the new molding compound is qualified and certified for TO-220 (Isolated and Non-Isolated) and TO-263 (D2Pak) packaged Low Power Thyristor Products.

### 6.0 Appendix I – Affected part number list

Q5015L651	Q4008L555	D6015L58TP	SRR6020LTP	Q1342Q6030LH5TP
Q6016LH651TP	Q4010L555	Q4015LT58TP	Q1070Q4015L5TP	Q1359Q6030LH5TP
L4008L952	Q6008L555	Q6015LT58TP	Q1084Q6015L5LBTP	Q1389Q6025L6LBTP
Q6016LH452	Q4006R455	S6015L58TP	Q1174Q5025LXTP	Q1413Q6030LH3TP
QK016LH452	L6008L655TP	Q5025LX59	Q1341Q6008LH4TP	Q1425Q8025LH5TP
S6015L52TP	Q6010L555TP	S2010LS259	Q1353AQ4015L6LBTP	Q4025L6BTP
D4020L52TP	Q4006LT55TP	S2006LS259	Q1353Q4015L6TP	Q4025L6TP
S4015L52TP	Q4008L455TP	Q4015L559TP	Q1354AQ6015L6LBTP	Q4025L9TP
D4015L52TP	S6006RS256	Q6025L659TP	Q1375Q6015L5TP	Q4025LH5TP
Q4010R552TP	Q5015R556	Q4025L659TP	Q1380Q8015L5TP	Q4030LH5TP
Q8004L452TP	Q4010L456	Q4004L359TP	Q1388Q6016LH4LBTP	Q6025L6TP
Q6015L552TP	S6012R56	Q6008L559TP	Q1390Q8016LH4LBTP	Q6025L9TP
S8025L52TP	S6006LS256TP	Q6008R559TP	Q1415Q6016LH2TP	Q6025LH5TP
Q6004L452TP	Q6025L656TP	L4008L659TP	Q1441Q6016LH4TP	Q6030LH3TP
Q4004L352TP	S8015L56TP	L6008L659TP	Q4015L5TP	Q6030LH5TP
D6015L52TP	D8015L56TP	S6025R59TP	Q4016LH2TP	Q753BQ6025L6LBTP
Q8016LH352TP	D4015L56TP	Q4015LT59TP	Q4016LH3TP	Q753Q4025L6TP
Q6008L552TP	S4015L56TP	S4006RS265TP	Q4016LH4TP	Q8025L6TP
Q6006RH352TP	Q4004L356TP	Q4016RH667	Q4016LH6TP	Q8025L9TP
Q6008LH452TP	Q4008R456TP	Q4015R667	Q4025L5TP	Q8025LH5TP
Q6010LH552TP	Q6015L556TP	Q4008RH467RP	Q5025LXTP	QK025L6TP
Q8025L652TP	L4006L556TP	S8055R67	Q6015L5TP	S382AS4015LLBTP
QJ6016LH452TP	L6004L556TP	Q6008R567	Q6016LH1LEDTP	S382S4015LTP
QJ6025LH452TP	L6006L656TP	S6025R67	Q6016LH2TP	S4015LTP
Q6016LH653	L6004L356TP	Q4015R967	Q6016LH3TP	S4020LTP
Q6015L653	L4008L656TP	Q4015R567	Q6016LH4TP	S6015LTP
Q6008LH453	Q6008L556TP	Q4008R567	Q6016LH6TP	S6020LTP
D4015L53	L4004L556TP	Q6025R667	Q6025L5TP	S647S6015LTP
Q4015L553	Q4008L556TP	S6008R67TP	Q6025LXTP	S677S4020LTP
Q4010L553	S6008L56TP	Q6010L568RP	Q8015L5TP	S678S8020LTP
D4020L53	Q4015L556TP	Q8010LH568	Q8016LH2TP	S749AS8015LLBTP
D2015L53	S6025L56TP	Q6008RH468	Q8016LH3TP	S749S8015LTP
S2015L53	S6025R56TP	L4004L568TP	Q8016LH4TP	S8015LTP
Q6025LX53	DK025L56TP	Q4004L368TP	Q8016LH6TP	S8020LTP
S4015L53	SK025L56TP	S1007S8025LLBTP	Q8025L5TP	S913S4015LTP
S6008L53TP	L4004L356TP	S4025LTP	Q871AQ8015L9LBTP	S963S6016LTP
D6015L53TP	Q6016RH657	S6025LTP	Q882Q4025LXTP	S993S6015LTP
S6015L53TP	L4004L357TP	S726S8025LTP	Q889AQ2015L6LBTP	S995S6020LTP
D6020L53TP	Q4025L658	S743S8025LLBTP	Q889Q2015L6TP	SK015LTP
S6020L53TP	Q4015L558	S751AS4025LLBTP	QK015L5TP	SK020LTP
S0516SR54	Q6008LH458	S751S4025LTP	QK016LH2TP	Q1066Q4008L4TP
Q4015L555	Q4008L658	S752AS8025LLBTP	QK016LH3TP	Q1069Q4008L4TP
D6020L55	Q2015R658	S752S8025LTP	QK016LH4TP	Q1081AQ2008L5LBTP
S6020L55	Q4008L458	S759S4025LTP	QK016LH6TP	Q1081Q2008L5TP
S2006L55	S6020L58	S798AS8025LLBTP	QK025L5TP	Q1082AQ2010L5LBTP
S2006LS255	S6008L58	S798S8025LTP	HQ6025LH5TP	Q1082Q2010L5TP
D2020L55	Q4015L958	S8025LTP	Q1113Q6025L6BTP	Q1111Q6008L4TP
S0512R55	L4004L558	S964S6040LTP	Q1234Q6025L6LBTP	Q1112Q8008L5TP
Q5015R555	Q6015L558TP	S991S6025LTP	Q1266Q4025L6TP	Q1162Q4010L4TP
S2008R55	S6025L58TP	SK025LTP	Q1336Q4030LH5TP	Q1208Q4008L4TP
Q1308Q4010L5TP	Q8012LH2TP	S709S2008LS2TP	Q4015LTTP	Q1435Q6016RH6TP
Q1315Q4010L4RP	Q8012LH5TP	S723AS6006LS3TP	Q5015LTHTP	Q1436Q8016RH4TP
Q1335Q4008LH4TP	Q955Q6010L5TP	S778S6008LS3LBTP	Q5015LTTP	Q4012R5TP
Q1349AQ4008L5LBTP	QK006L5TP	S801S6008LS3TP	Q6015LTHTP	Q4015R5TP
Q1349Q4008L5TP	QK006LH4TP	S818S2006LS3TP	Q6015LTTP	Q4015R6TP
Q1350AQ6008L5LBTP	QK008L5TP	S831S6008LS2TP	Q875Q4015LTTP	Q4015R9TP
Q1350Q6008L5TP	QK008LH4TP	S939S4006LS2TP	Q1378Q6004LTTP	Q4016RH2TP
Q1351AQ4010L5LBTP	QK010L4TP	S941S4006LS2LBTP	Q1379Q4004LTTP	Q4016RH3TP
Q1351Q4010L5TP	QK010L5TP	S942S4006LS2LBTP	Q4004LTTP	Q4016RH4TP
Q1352AQ6010L5LBTP	QK010LH5TP	S952S4006LS2LBTP	Q6004LTTP	Q4016RH6TP

Q1352Q6010L5TP	QK012LH2TP	S955S4006LS2TP	Q1248Q4008LTTP	Q4025R5TP
Q1376Q4008L4TP	QK012LH5TP	S961AS6006LS2LBTP	Q1263Q4008LTTP	Q4025RXTP
Q1385Q4008LH4TP	S4006LTP	S962AS6006LS3LBTP	Q1371Q4010LTTP	Q6012R5TP
Q1386QK008LH4LBTP	S4008LTP	S962S6006LS3TP	Q1408Q6012LTHLEDTP	Q6015R5TP
Q1387Q6008LH4LBTP	S4010LTP	L4004L3TP	Q1409Q4008LTTP	Q6015R6TP
Q1423Q4010L4TP	S4012LTP	L4004L5TP	Q4006LTHTP	Q6015R9TP
Q1438Q6012LH2TP	S403AS4010LLBTP	L4004L6TP	Q4006LTTP	Q6016RH2TP
Q4006L4TP	S403S4010LTP	L4004L8TP	Q4008LTHTP	Q6016RH3TP
Q4006LH4TP	S472S4008LTP	L4006L5TP	Q4008LTTP	Q6016RH4TP
Q4008L4TP	S6006LTP	L4006L6TP	Q4010LTHTP	Q6016RH6TP
Q4008L5TP	S6008LTP	L4006L8TP	Q4010LTTP	Q6025R5TP
Q4008LH4TP	S6010LTP	L4008L6TP	Q6006LTHTP	Q6025RXTP
Q4010L4TP	S6012LTP	L4008L8TP	Q6006LTTP	Q8012R5TP
Q4010L5TP	S619S4010LTP	L6004L3TP	Q6008LTHTP	Q8015R5TP
Q4010LH5TP	S665S4008LTP	L6004L5TP	Q6008LTTP	Q8015R6TP
Q4012LH2TP	S748AS8010LLBTP	L6004L6TP	Q6010LTHTP	Q8015R9TP
Q4012LH5TP	S748S8010LTP	L6004L8TP	Q6010LTTP	Q8016RH2TP
Q563Q2006L5TP	S758S4012LTP	L6006L5TP	Q6012LTH1LEDTP	Q8016RH3TP
Q6006L4TP	S8006LTP	L6006L6TP	Q685Q2008LTTP	Q8016RH4TP
Q6006L5TP	S8008LTP	L6006L8TP	S1005S6025RTP	Q8016RH6TP
Q6006LH4TP	S8010LTP	L6008L6TP	S4025RTP	Q8025R5TP
Q6008L4TP	S859S6008LTP	L6008L8TP	S5025RTP	Q8025RXTP
Q6008L5TP	SK006LTP	Q1275L6008L6LBTP	S556S2025RTP	QK012R5TP
Q6008LH4TP	SK008LTP	Q1374L6004L3TP	S6025RTP	QK015R5TP
Q6008LH5TP	SK010LTP	Q1416L4004L3LBTP	S785S6025RLBTP	QK016RH2TP
Q6010L4TP	SRR6012L1TP	Q1439L6004L8TP	S8025RTP	QK016RH3TP
Q6010L5TP	SRR6012LTP	Q4004L3TP	S832S4025R51TP	QK016RH4TP
Q6010LH5TP	S1001S6008LS2LBTP	Q4004L4TP	S935S6025RLBTP	QK016RH6TP
Q6012LH1LEDTP	S4006LS2TP	Q4004L5TP	S972S6025RLBTP	QK025R5TP
Q6012LH2TP	S4006LS3TP	Q6004L3TP	S976S4025RTP	S4040RTP
Q6012LH5TP	S4008LS2TP	Q6004L4TP	S982S6025RTP	S4055RTP
Q697Q4010L5TP	S4008LS3TP	Q6004L5TP	SK025RTP	S512S0540RLBTP
Q8006L5TP	S4010LS2TP	Q6006LH3TP	SRR6020RTP	S6040RTP
Q8006LH4TP	S4010LS3TP	Q6008LH1LEDTP	S4040RQ2TP	S6055RTP
Q8008L5TP	S6006LS2TP	Q8004L3TP	S4040RQ3TP	S8040RTP
Q8008LH4TP	S6006LS3TP	Q8004L4TP	S4040RQTP	S8055RTP
Q8010L4TP	S6008LS2TP	Q8004L5TP	S980S4040RQ2TP	S860S4055RLBTP
Q8010L5TP	S6008LS3TP	QK004L4TP	S981S4040RQ3TP	S937S6055RLBTP
Q8010LH2TP	S6010LS2TP	Q1372Q4015LTTP	Q1334Q2016RH4TP	S979S4040RTP
Q8010LH5TP	S6010LS3TP	Q4015LTHTP	Q1384Q6016RH6TP	SK040RTP
SK055RTP	Q8008RH4TP	S6006RS3TP	S4040NQRP	Q8025N5TP
HQ6025RH5TP	Q8010R4TP	S6008RS2TP	S977S4040NQ3RP	QK015N5RP
Q1410Q8025R6TP	Q8010R5TP	S6008RS3TP	S978S4040NQRP	QK015N5TP
Q1437Q8025RH5TP	Q8010RH2TP	S6010RS2TP	Q4015N5RP	QK016NH2RP
Q4025R6TP	Q8010RH5TP	S6010RS3TP	Q4015N5TP	QK016NH2TP
Q4025RH5TP	Q8012RH2TP	S895S6008RS2TP	Q4015N6RP	QK016NH3RP
Q4035RH5TP	Q8012RH5TP	L4004R3TP	Q4015N6TP	QK016NH3TP
Q6025R6TP	QK006R5TP	L4004R5TP	Q4015N9RP	QK016NH4RP
Q6025RH5TP	QK006RH4TP	L4004R6TP	Q4015N9TP	QK016NH4TP
Q6035RH5TP	QK008R5TP	L4004R8TP	Q4016NH2RP	QK016NH6RP
Q8025R6TP	QK008RH4TP	L4006R5TP	Q4016NH2TP	QK016NH6TP
Q8025RH5TP	QK010R4TP	L4006R6TP	Q4016NH3RP	QK025N5RP
QK025R6TP	QK010R5TP	L4006R8TP	Q4016NH3TP	QK025N5TP
S4016RTP	QK010RH5TP	L4008R6TP	Q4016NH4RP	S4040NRP
S6016RTP	QK012RH2TP	L4008R8TP	Q4016NH4TP	S4040NTP
S8016RTP	QK012RH5TP	L6004R3TP	Q4016NH6RP	S4055NRP
SK016RTP	S4006RTP	L6004R5TP	Q4016NH6TP	S4055NTP
SRR6016RTP	S4008RTP	L6004R6TP	Q4025N5RP	S6040NRP
Q1257Q6008RH4TP	S4010RTP	L6004R8TP	Q4025N5TP	S6040NTP
Q1309Q4008RH4TP	S4012RTP	L6006R5TP	Q6015N5RP	S6055NRP

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Q4006R4TP	S6008RTP	L6008R6TP	Q6015N6TP	S8040NTP
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Q4006RH4TP	S6012RTP	Q1395Q4004R4TP	Q6015N9TP	S8055NTP
Q4008R4TP	S667S6008RTP	Q1396Q4004R4LBTP	Q6016NH2RP	SK040NRP
Q4008R5TP	S753S0508RTP	Q1397Q4004R4LBTP	Q6016NH2TP	SK040NTP
Q4008RH3TP	S784S6008R67RP	Q4004R3TP	Q6016NH3RP	SK055NRP
Q4008RH4TP	S8006RTP	Q4004R4TP	Q6016NH3TP	SK055NTP
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Q4010R5TP	S8010RTP	Q6004R3TP	Q6016NH4TP	HQ6025NH5TP
Q4010RH5TP	S8012RTP	Q6004R4TP	Q6016NH6RP	Q4025NH5RP
Q4012RH2TP	S844S8010RTP	Q6006RH3TP	Q6016NH6TP	Q4025NH5TP
Q4012RH5TP	S845S8010RTP	Q6008RH1LEDTP	Q6025N5RP	Q4025NH6RP
Q6006R4TP	S946S4012RTP	Q8004R3TP	Q6025N5TP	Q4025NH6TP
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Q6006RH4TP	SK006RTP	QK004R4TP	Q8015N5TP	Q4035NH5TP
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Q6008R5TP	SK010RTP	S4025NTP	Q8015N6TP	Q6025NH5TP
Q6008RH3TP	SK012RTP	S6025NRP	Q8015N9RP	Q6025NH6RP
Q6008RH4TP	SRR6012R1TP	S6025NTP	Q8015N9TP	Q6025NH6TP
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Q6012RH1LEDTP	S4006RS3TP	SK025NRP	Q8016NH3TP	Q8025NH5TP
Q6012RH2TP	S4008RS2TP	SK025NTP	Q8016NH4RP	Q8025NH6RP
Q6012RH5TP	S4008RS3TP	SRR6020NRP	Q8016NH4TP	Q8025NH6TP
Q8006R5TP	S4010RS2TP	SRR6020NTP	Q8016NH6RP	QK025NH6RP
Q8006RH4TP	S4010RS3TP	S4040NQ2RP	Q8016NH6TP	QK025NH6TP
Q8008R5TP	S6006RS2TP	S4040NQ3RP	Q8025N5RP	S4016NRP
S4016NTP	Q6010NH5RP	Q1399L4004R3LBTP	SK012NRP	MCR68-2G
S6016NRP	Q6010NH5TP	Q1400L4004R3LBTP	SK012NTP	MCR8NG
S6016NTP	Q6012NH1LEDRP	Q1401L4004R3LBTP	S4006NS2RP	2N6400G
S8016NRP	Q6012NH1LEDTP	Q1403L6004R5TP	S4006NS2TP	2N6401G
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SK016NRP	Q6012NH2TP	Q6008NH1LEDTP	S4006NS3TP	2N6403G
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Q4006N5RP	Q8006N5TP	SJ6040R2TP	S4010NS2RP	2N6505G
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Q4008NH3TP	Q8008NH4TP	SJ6040NTP	S6008NS2TP	MCR25DG
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Q4008NH4TP	Q8010N4TP	S4006NTP	S6008NS3TP	MCR25NG
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Q4010N4TP	Q8010N5TP	S4008NTP	S6010NS2TP	MCR69-3G
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Q4010N5TP	Q8010NH2TP	S4010NTP	S6010NS3TP	TPA0233G
Q4010NH5RP	Q8010NH5RP	S4012NRP	MCR310-10G	2N6344G
Q4010NH5TP	Q8010NH5TP	S4012NTP	MCR72-3G	BTB08-600BW3G
Q4012NH2RP	Q8012NH2RP	S6006NRP	MCR72-6G	BTB08-600CW3G
Q4012NH2TP	Q8012NH2TP	S6006NTP	MCR72-6TG	BTB08-800BW3G

Q4012NH5RP	Q8012NH5RP	S6008NRP	MCR72-8G	BTB08-800CW3G
Q4012NH5TP	Q8012NH5TP	S6008NTP	MCR72-8TG	BTB12-600BW3G
Q6006N4RP	QK006N5RP	S6010NRP	MCR8SDG	BTB12-600CW3G
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Q6006N5RP	QK006NH4RP	S6012NRP	MCR8SNG	BTB12-800BW3G
Q6006N5TP	QK006NH4TP	S6012NTP	SCR888LFDZG	BTB12-800CW3G
Q6006NH4RP	QK008N5RP	S8006NRP	2N6394G	BTB12H-600CW3G
Q6006NH4TP	QK008N5TP	S8006NTP	2N6394TG	MAC12DG
Q6008N4RP	QK008NH4RP	S8008NRP	2N6395G	MAC12HCDG
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Q6008N5RP	QK010N4RP	S8010NRP	2N6397TG	MAC12HCNG
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Q6008NH3RP	QK010N5RP	S8012NRP	2N6399TG	MAC12NG
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Q6010N4RP	QK012NH2RP	SK008NRP	MCR12NG	MAC210A8G
Q6010N4TP	QK012NH2TP	SK008NTP	MCR218-2G	MAC212A10G
Q6010N5RP	QK012NH5RP	SK010NRP	MCR218-4G	MAC212A8G
Q6010N5TP	QK012NH5TP	SK010NTP	MCR218-6G	MAC228A10G
MAC228A4G	BTA12-600BW3G	QJ8016NH4RP	S990SJ6012L1TP	S992SJ6025LTP
MAC228A6G	BTA12-600BW3GF	QJ8016NH4TP	SJ4012L1TP	S996SJ6020L1TP
MAC228A6TG	BTA12-600CW3G	QJ8016NH5RP	SJ4012L2TP	SJ4020L1TP
MAC228A8G	BTA12-800BW3G	QJ4025LH5TP	SJ4012LTP	SJ4020L2TP
MAC228A8TG	BTA12-800CW3G	QJ4025LH6TP	SJ6012L1TP	SJ4020LTP
MAC3030-8G	BTA16-600BW3G	QJ6025LH4TP	SJ6012L2TP	SJ4025L1TP
MAC8DG	BTA16-600CW3G	QJ6025LH5TP	SJ6012LTP	SJ4025L2TP
MAC8MG	BTA16-600SW3G	QJ6025LH6TP	S994SJ6016L1TP	SJ4025LTP
MAC8NG	BTA16-800BW3G	QJ8025LH4A8TP	SJ4016L1TP	SJ6020L1TP
MAC8SDG	BTA16-800CW3G	QJ8025LH4TP	SJ4016L2TP	SJ6020L2TP
MAC8SMG	BTA16-800SW3G	QJ8025LH5TP	SJ4016LTP	SJ6020LTP
MAC8SNG	BTA25-600CW3G	QJ4025RH5TP	SJ6016L1TP	SJ6025L1TP
MAC9DG	BTA25-800CW3G	QJ4025RH6TP	SJ6016L2TP	SJ6025L2TP
MAC9MG	BTA25H-600CW3G	QJ6025RH4TP	SJ6016LTP	SJ6025LTP
MAC9NG	BTA30-600CW3G	QJ6025RH5TP	SJ4012R1TP	SJ8025LTP
SAC396-7G	QJ4016LH2TP	QJ6025RH6TP	SJ4012R2TP	SJ4020R1TP
SAC847-8LFBJG	QJ4016LH3TP	QJ8025RH4TP	SJ4012RTP	SJ4020R2TP
T2500DG	QJ4016LH4TP	QJ8025RH5TP	SJ4016R1TP	SJ4020RTP
T2800DG	QJ4016LH6TP	QJ8030RH4TP	SJ4016R2TP	SJ4025R1TP
2N6344AG	QJ6016LH2TP	QJ8030RH5TP	SJ4016RTP	SJ4025R2TP
2N6348AG	QJ6016LH3TP	QJ8035RH4TP	SJ6012R1TP	SJ4025RTP
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BTB16-600BW3G	QJ6016LH5TP	QJ4025NH5RP	SJ6012RTP	SJ6020R2TP
BTB16-600CW3G	QJ6016LH6TP	QJ4025NH5TP	SJ6016R1TP	SJ6020RTP
BTB16-800BW3G	QJ8016LH3TP	QJ4025NH6RP	SJ6016R2TP	SJ6025R1TP
BTB16-800CW3G	QJ8016LH4TP	QJ4025NH6TP	SJ6016RTP	SJ6025R2TP
BTB16H-600BW3G	QJ8016LH5TP	QJ6025NH4RP	SJ4012N1RP	SJ6025RTP
MAC15-10G	QJ4016RH2TP	QJ6025NH4TP	SJ4012N1TP	SJ4020N1RP
MAC15-8G	QJ4016RH3TP	QJ6025NH5RP	SJ4012N2RP	SJ4020N1TP
MAC15A10G	QJ4016RH4TP	QJ6025NH5TP	SJ4012N2TP	SJ4020N2RP
MAC15A6G	QJ4016RH6TP	QJ6025NH6RP	SJ4012NRP	SJ4020N2TP
MAC15A8G	QJ6016RH2TP	QJ6025NH6TP	SJ4012NTP	SJ4020NRP
MAC15MG	QJ6016RH3TP	QJ8025NH4RP	SJ4016N1RP	SJ4020NTP
MAC15NG	QJ6016RH4TP	QJ8025NH4TP	SJ4016N1TP	SJ4025N1RP
MAC16CMG	QJ6016RH5TP	QJ8025NH5RP	SJ4016N2RP	SJ4025N1TP
MAC16CNG	QJ6016RH6TP	QJ8025NH5TP	SJ4016N2TP	SJ4025N2RP
MAC16DG	QJ8016RH3TP	QJ8030NH4RP	SJ4016NRP	SJ4025N2TP
MAC16HCDG	QJ8016RH4TP	QJ8030NH4TP	SJ4016NTP	SJ4025NRP
MAC16HCMG	QJ8016RH5TP	QJ8030NH5RP	SJ6012N1RP	SJ4025NTP
MAC16HCNG	QJ4016NH2RP	QJ8030NH5TP	SJ6012N1TP	SJ6020N1RP

MAC16MG	QJ4016NH3RP	QJ8035NH4RP	SJ6012N2RP	SJ6020N1TP
MAC16NG	QJ4016NH4RP	QJ8035NH4TP	SJ6012N2TP	SJ6020N2RP
SAC187G	QJ4016NH6RP	QJ8035NH5RP	SJ6012NRP	SJ6020N2TP
SAC319MTG	QJ6016NH2RP	QJ8035NH5TP	SJ6012NTP	SJ6020NRP
SAC320MTG	QJ6016NH3RP	S997SJ6032L2TP	SJ6016N1RP	SJ6020NTP
BTA08-600BW3G	QJ6016NH4RP	S998SJ6040L2TP	SJ6016N1TP	SJ6025N1RP
BTA08-600CW3G	QJ6016NH5RP	SJ6032L2TP	SJ6016N2RP	SJ6025N1TP
BTA08-800BW3G	QJ6016NH5TP	SJ6032LTP	SJ6016N2TP	SJ6025N2RP
BTA08-800CW3G	QJ6016NH6RP	SJ6040L2TP	SJ6016NRP	SJ6025N2TP
BTA08-800CW3LFG	QJ8016NH3RP	SJ6040LTP	SJ6016NTP	SJ6025NRP
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QJ6006L5TP	QJ6010N5RP	SV6020L1QTP-N	QV6012LH4TP	SV6050R2TP
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QJ6010LH5TP	QJ8006N5RP	SV6020N1QRP	QV8012LH5TP	BTA25-600CW3GF
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QJ8008L5TP	QJ8006NH4TP	SV6020N2QTP	QV8025LH4TP	Q753AQ4025L6LBTP
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QJ8010L4TP	QJ8008N5TP	SV6025N1QTP	QV6012RH4TP	D4025LTP
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QJ6006R5TP	QJ8010NH3RP	SV6012R1TP	QV8012RH4TP	D118AD4025LLBTP
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QJ6008R5TP	QJ8010NH4RP	SV6016R1TP	QV8016RH4TP	D6025LCTP
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QJ8010RH3TP	SV6025L1TP	SV6016L1QTP	QV6016NH4TP	D108D6015LTP
QJ8010RH4TP	SV6025L2TP	SV6016L1QTP-N	QV6016NH5RP	D110D8020LLBTP
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QJ6008NH4RP	SV6025N1TP	SV6016N1QRP	QV8025NH4RP	
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QJ6010N4RP	SV6025N2TP	SV6016N2QRP	QV8025NH5RP	