

The header features the Bourns logo in white, stylized capital letters with a registered trademark symbol, positioned above a thin yellow horizontal line. Below the line, the words "Product Update Memo" are written in a large, bold, white sans-serif font. Underneath that, the words "OPTIMIZATION PLANS" are written in a smaller, bold, white sans-serif font. The background is a blue gradient with faint, light-colored icons of various electronic components like capacitors, resistors, and integrated circuits.

**BOURNS®**

**Product Update Memo**

**OPTIMIZATION PLANS**

January, 2016

## **Bourns Optimization Plan Updates**

Enclosed please find the most current Bourns Optimization Plans. Please review these sheets carefully so you are aware of products not recommended for new designs and note the dates for last order acceptance. Where available, alternatives are provided.



# Sensors/Controls Optimization Plan

January, 2016

Model	Size	Description	Type	2016				2017				2018				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
CT-23	27 mm	Turns-Counting Dial	TCD	G												H-22, H-23, H-516
CT-26	28 mm	Turns-Counting Dial	TCD	G												H-22, H-23, H-516
H-830		3310 Design Kit		G												H-830-1
H-831		3310 Design Kit		G												H-830-1

**Notes:**

Any models appearing on this plan are considered mature, are not recommended for new designs and are marked as such on the web site.

**Type Codes:**

- WW = Wirewound Precision Control
- HYB = Hybritron® Precision Control
- CP = Conductive Plastic Precision Control
- PC = Panel Control
- CE = Contacting Encoder
- OE = Optical Encoder
- TCD = Turns-Counting Dial
- SP = Slide Potentiometer

**Events** (occurs at end of indicated quarter):

- A = Develop worldwide conversion plan to alternative.
- B = Remove from new catalogs (increase price).
- C = Remove from selected distribution channel cost and stockable lists (increase resale price).
- D = Stop adding to MPOs.
- E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).
- F = Stop all orders except stock on hand.
- G = Stop production, dispose of inventory.

- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out



# Trimmer Optimization Plan

January, 2016

Model	Size	Description	Type	2016				2017				2018				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>																

**Type Codes:**

MT = Multiturn  
ST = Single-Turn  
TH = Through-Hole  
SMT = Surface Mount

**Events** (occurs at end of indicated quarter):

A = Develop worldwide conversion plan to alternative.  
B = Remove from new catalogs (increase price).  
C = Remove from selected distribution channel cost and stockable lists (increase resale price).  
D = Stop adding to MPOs.  
E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).  
F = Stop all orders except stock on hand.  
G = Stop production, dispose of inventory.

**Notes:**

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- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out

# BOURNS®

## Switch Optimization Plan

January, 2016

Model	Size	Description	Type	2016				2017				2018				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>																

**Events** (occurs at end of indicated quarter):

A = Develop worldwide conversion plan to alternative.

B = Remove from new catalogs (increase price).

C = Remove from selected distribution channel cost and stockable lists (increase resale price).

D = Stop adding to MPOs.

E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).

F = Stop all orders except stock on hand.

G = Stop production, dispose of inventory.

**Notes:**

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Scheduled for 2016 phase-out

Scheduled for 2017 phase-out

Scheduled for 2018 phase-out



# Chips, Arrays, Networks, Specialty & Power Resistors Optimization Plan

January, 2016

Model	Size	Description	Type	2016				2017				2018				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
CRP Series	0603-1206	Precision Chip Resistor	SMD	F		G										CRT
CRH Series	0603-1206	High Ohmic Chip Resistor	SMD	F		G										CR
PWR4522	11.45 x 5.5 mm	Fusible Safety Wirewound	TH				F		G							None
PWR4413B	11.43 x 13.5 x 0.8 mm	Bare Metal Shunt	TH		F		G									PWR4412-2SB
PWR4413C	15.24 x 16 x 1 mm	Bare Metal Shunt	TH		F		G									PWR4412-2SC
PWR4413D	20.32 x 26 x 1 mm	Bare Metal Shunt	TH		F		G									PWR4412-2SD
700 Series	10.11 - 40.59 x 8.5 x 3.81 mm	RC Terminator Networks	SIP		F		G									None
900 Series	10.2 - 35.6 x 5.08 x 3.81 mm	Capacitor Networks	SIP		F		G									None
CHF Series	10 - 1000 W	RF Power Resistors	FL/CH		F		G									None

#### Type Codes:

SIP = Single In-line Package  
 DIP = Dual In-line Package  
 SMD = Surface Mount Device  
 2NBS/2QSP = Thinfilm  
 T0220 = T0220 Style Housing  
 T0221 = T0221 Style Housing  
 FL/CH = Flanged/Chip

#### Events (occurs at end of indicated quarter):

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 C = Remove from selected distribution channel cost and stockable lists (increase resale price).  
 D = Stop adding to MPOs.  
 E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).  
 F = Stop all orders except stock on hand.  
 G = Stop production, dispose of inventory.

#### Notes:

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- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out



# Magnetics Optimization Plan

January, 2016

Model	Size	Description	Type	2016				2017				2018				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
06637-1A-RC	60 x 21 mm	Coil	PC		F		G									None
06754	107 x 63 mm	Coil, Dual	PC		F		G									None
07304	190 x 101 mm	Coil	PC		F		G									None
07356	162 x 58 mm	Coil	PC		F		G									None
07455-1	66 x 15 mm	RF Transformer	T		F		G									None
07469-1	66 x 15 mm	RF Transformer	T		F		G									None
07552	58 x 7 mm	Adjustable Inductor	PC		F		G									None
08446	53 x 23 mm	Adjustable Inductor	PC		F		G									None
08509-TR-RC	1.5 mm diameter	Air Coil	PC		F		G									None
08511-RC	3.8 x 14 mm	Air Coil	PC		F		G									None
08514-RC	6.9 mm diameter	Air Coil	PC		F		G									None
4534-RC	88 x 39 mm	Inductor	PC		F		G									None
4551	76 x 34 mm	Inductor	PC		F		G									None
4631-E	28 x 9 mm	Inductor	PC		F		G									None
CM100505	1 x 0.5 x 0.5 mm	Chip Inductor	CI		F		G									CI100505, CW100505
CM160808	1.6 x 0.8 x 0.8 mm	Chip Inductor	CI		F		G									CI160808, CW160808
FB43-110-RC	3.2 x 1 x 2.8 mm	Ferrite Bead	CB		F		G									None
FB43-226-RC	3.2 x 1 x 5.6 mm	Ferrite Bead	CB		F		G									None
FB43-287-RC	7.1 x 2.1 x 7.1 mm	Ferrite Bead	CB		F		G									None
FB43-422-RC	4.6 x 1.2 x 10.4 mm	Ferrite Bead	CB		F		G									None
FB64-110-RC	3.2 x 1 x 2.8 mm	Ferrite Bead	CB		F		G									None
FB73-085-RC	1.3 x 0.68 x 2.1 mm	Ferrite Bead	CB		F		G									None
FB73-110-RC	3.2 x 1 x 2.8 mm	Ferrite Bead	CB		F		G									None
FB73-226-RC	3.2 x 1 x 5.6 mm	Ferrite Bead	CB		F		G									None
FB73-422-RC	4.6 x 1.2 x 10.4 mm	Ferrite Bead	CB		F		G									None
PT72589L	12.7 x 6.8 x 4.5 mm	Transformer	T		F		G									None
PT74901-1EL	12.7 x 6.8 x 4.5 mm	Transformer	T		F		G									None
PT75638-1EL	12.7 x 6.8 x 4.5 mm	Transformer	T		F		G									None
PT91008L	66 x 15 mm	RF Transformer	T		F		G									None
SRP1055	11 x 9.5 x 5.5 mm	Power Inductor	PC		F		G									None

**Type Codes:**

- CI = Chip Inductor
- PC = Power Inductor
- CMC = Common Mode Choke
- T = Transformer
- CB = Chip Bead

**Events** (occurs at end of indicated quarter):

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- F = Stop all orders except stock on hand.
- G = Stop production, dispose of inventory.

**Notes:**

Any models appearing on this plan are considered mature, are not recommended for new designs and are marked as such on the web site.

Scheduled for 2016 phase-out
Scheduled for 2017 phase-out
Scheduled for 2018 phase-out



# Multifuse® PTC Optimization Plan

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>															

**Type Codes:**

- R = Radial Leaded
- S = Strap
- SMT = Surface Mount

**Events** (occurs at end of indicated quarter):

- A = Develop worldwide conversion plan to alternative.
- B = Remove from new catalogs (increase price).
- C = Remove from selected distribution channel cost and stockable lists (increase resale price).
- D = Stop adding to MPOs.
- E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).
- F = Stop all orders except stock on hand.
- G = Stop production, dispose of inventory.

**Notes:**

Any models appearing on this plan are considered mature, are not recommended for new designs and are marked as such on the web site.

- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out



# Semiconductor Products Optimization Plan

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CD0603-B00340	Chip Diode	CD	B,D		E,F	G									
CD0603-B0130	Chip Diode	CD	B,D		E,F	G									
CD0603-B0130L	Chip Diode	CD	B,D		E,F	G									
CD0603-B0140L	Chip Diode	CD	B,D		E,F	G									
CD0603-B0140R	Chip Diode	CD	B,D		E,F	G									
CD0603-B0230	Chip Diode	CD	B,D		E,F	G									
CD0603-B0240	Chip Diode	CD	B,D		E,F	G									
CD0603-S0180	Chip Diode	CD	B,D		E,F	G									
CD0603-S0180R	Chip Diode	CD	B,D		E,F	G									
CD0603-T05C	Chip Diode	CD	B,D		E,F	G									
CD0603-T12C	Chip Diode	CD	B,D		E,F	G									
CD0603-T24C	Chip Diode	CD	B,D		E,F	G									
CD0603-T36C	Chip Diode	CD	B,D		E,F	G									
CD0603-Z10	Chip Diode	CD	B,D		E,F	G									
CD0603-Z11	Chip Diode	CD	B,D		E,F	G									
CD0603-Z12	Chip Diode	CD	B,D		E,F	G									
CD0603-Z13	Chip Diode	CD	B,D		E,F	G									
CD0603-Z15	Chip Diode	CD	B,D		E,F	G									
CD0603-Z16	Chip Diode	CD	B,D		E,F	G									
CD0603-Z18	Chip Diode	CD	B,D		E,F	G									
CD0603-Z2	Chip Diode	CD	B,D		E,F	G									
CD0603-Z20	Chip Diode	CD	B,D		E,F	G									
CD0603-Z22	Chip Diode	CD	B,D		E,F	G									
CD0603-Z24	Chip Diode	CD	B,D		E,F	G									
CD0603-Z27	Chip Diode	CD	B,D		E,F	G									
CD0603-Z2V2	Chip Diode	CD	B,D		E,F	G									
CD0603-Z2V4	Chip Diode	CD	B,D		E,F	G									
CD0603-Z2V7	Chip Diode	CD	B,D		E,F	G									
CD0603-Z3	Chip Diode	CD	B,D		E,F	G									
CD0603-Z30	Chip Diode	CD	B,D		E,F	G									
CD0603-Z33	Chip Diode	CD	B,D		E,F	G									
CD0603-Z36	Chip Diode	CD	B,D		E,F	G									
CD0603-Z39	Chip Diode	CD	B,D		E,F	G									
CD0603-Z3V3	Chip Diode	CD	B,D		E,F	G									
CD0603-Z3V6	Chip Diode	CD	B,D		E,F	G									
CD0603-Z3V9	Chip Diode	CD	B,D		E,F	G									
CD0603-Z4V3	Chip Diode	CD	B,D		E,F	G									
CD0603-Z4V7	Chip Diode	CD	B,D		E,F	G									
CD0603-Z5V1	Chip Diode	CD	B,D		E,F	G									
CD0603-Z5V6	Chip Diode	CD	B,D		E,F	G									
CD0603-Z6V2	Chip Diode	CD	B,D		E,F	G									
CD0603-Z6V8	Chip Diode	CD	B,D		E,F	G									
CD0603-Z7V5	Chip Diode	CD	B,D		E,F	G									

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# Semiconductor Products Optimization Plan (Continued)

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CD0603-Z8V2	Chip Diode	CD	B,D		E,F	G									
CD0603-Z9V1	Chip Diode	CD	B,D		E,F	G									
CD1005-B00340	Chip Diode	CD	B,D		E,F	G									
CD1005-B0130	Chip Diode	CD	B,D		E,F	G									
CD1005-B0130L	Chip Diode	CD	B,D		E,F	G									
CD1005-B0140L	Chip Diode	CD	B,D		E,F	G									
CD1005-B0140R	Chip Diode	CD	B,D		E,F	G									
CD1005-B0230	Chip Diode	CD	B,D		E,F	G									
CD1005-B0240	Chip Diode	CD	B,D		E,F	G									
CD1005-B0520	Chip Diode	CD	B,D		E,F	G									
CD1005-S01575	Chip Diode	CD	B,D		E,F	G									
CD1005-S0180	Chip Diode	CD	B,D		E,F	G									
CD1005-S0180R	Chip Diode	CD	B,D		E,F	G									
CD1005-T05C	Chip Diode	CD	B,D		E,F	G									
CD1005-T12C	Chip Diode	CD	B,D		E,F	G									
CD1005-T24C	Chip Diode	CD	B,D		E,F	G									
CD1005-T36C	Chip Diode	CD	B,D		E,F	G									
CD1005-Z10	Chip Diode	CD	B,D		E,F	G									
CD1005-Z11	Chip Diode	CD	B,D		E,F	G									
CD1005-Z12	Chip Diode	CD	B,D		E,F	G									
CD1005-Z13	Chip Diode	CD	B,D		E,F	G									
CD1005-Z15	Chip Diode	CD	B,D		E,F	G									
CD1005-Z16	Chip Diode	CD	B,D		E,F	G									
CD1005-Z18	Chip Diode	CD	B,D		E,F	G									
CD1005-Z2	Chip Diode	CD	B,D		E,F	G									
CD1005-Z20	Chip Diode	CD	B,D		E,F	G									
CD1005-Z22	Chip Diode	CD	B,D		E,F	G									
CD1005-Z24	Chip Diode	CD	B,D		E,F	G									
CD1005-Z27	Chip Diode	CD	B,D		E,F	G									
CD1005-Z29	Chip Diode	CD	B,D		E,F	G									
CD1005-Z2V2	Chip Diode	CD	B,D		E,F	G									
CD1005-Z2V4	Chip Diode	CD	B,D		E,F	G									
CD1005-Z2V7	Chip Diode	CD	B,D		E,F	G									
CD1005-Z3	Chip Diode	CD	B,D		E,F	G									
CD1005-Z30	Chip Diode	CD	B,D		E,F	G									
CD1005-Z33	Chip Diode	CD	B,D		E,F	G									
CD1005-Z36	Chip Diode	CD	B,D		E,F	G									
CD1005-Z39	Chip Diode	CD	B,D		E,F	G									
CD1005-Z3V3	Chip Diode	CD	B,D		E,F	G									
CD1005-Z3V6	Chip Diode	CD	B,D		E,F	G									
CD1005-Z3V9	Chip Diode	CD	B,D		E,F	G									
CD1005-Z4V3	Chip Diode	CD	B,D		E,F	G									
CD1005-Z4V7	Chip Diode	CD	B,D		E,F	G									
CD1005-Z5V1	Chip Diode	CD	B,D		E,F	G									
CD1005-Z5V6	Chip Diode	CD	B,D		E,F	G									
CD1005-Z6V2	Chip Diode	CD	B,D		E,F	G									
CD1005-Z6V8	Chip Diode	CD	B,D		E,F	G									

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# Semiconductor Products Optimization Plan (Continued)

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CD1005-Z7V5	Chip Diode	CD	B,D		E,F	G									
CD1005-Z8V2	Chip Diode	CD	B,D		E,F	G									
CD1005-Z9V1	Chip Diode	CD	B,D		E,F	G									
CD1607-B140LF	Chip Diode	CD	B,D		E,F	G									
CD1607-B120LLF	Chip Diode	CD	B,D		E,F	G									
CD1607-B140LLF	Chip Diode	CD	B,D		E,F	G									
CDDFN2-T12C	Chip Diode	CD	B,D		E,F	G									
CDDFN2-T24C	Chip Diode	CD	B,D		E,F	G									
CDDFN2-T4.7C	Chip Diode	CD	B,D		E,F	G									
CDDFN2-T5.0C	Chip Diode	CD	B,D		E,F	G									
CDSOT23-S2004	Chip Diode	CD	B,D		E,F	G									
CDSOT563-T05C	Chip Diode	CD	B,D		E,F	G									
CDSOT363-T05C	Chip Diode	CD	B,D		E,F	G									
CDWBS16-PLC01-6	Chip Diode	CD			B,D		E,F		G						
TISP4C015L1NR-S	Thyristor Surge Protector	TSP	B,D		E,F		G								
TISP4C020L1NR-S	Thyristor Surge Protector	TSP	B,D		E,F		G								
TISP4C025L1NR-S	Thyristor Surge Protector	TSP	B,D		E,F		G								
TISP4C035L1NR-S	Thyristor Surge Protector	TSP	B,D		E,F		G								
TISP6NTP2ADR-S	Thyristor Surge Protector	TSP	F		G										
TISP4300MMAJR-S	Thyristor Surge Protector	TSP	F		G										
TISP4300MMBJR-S	Thyristor Surge Protector	TSP	F		G										
TISP4350MMAJR-S	Thyristor Surge Protector	TSP	F		G										
TISP4350MMBJR-S	Thyristor Surge Protector	TSP	F		G										
TISP4360MMAJR-S	Thyristor Surge Protector	TSP	F		G										
TISP4360MMBJR-S	Thyristor Surge Protector	TSP	F		G										
TISP61089BGDR-S	Thyristor Surge Protector	TSP	F		G										
TISP61511DR-S	Thyristor Surge Protector	TSP	F		G										

## Type Codes:

CD = Chip Diode  
 TBU = TBU® HSP Product  
 TSP = TISP® Product

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## Note:

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Scheduled for 2016 phase-out

Scheduled for 2017 phase-out

Scheduled for 2018 phase-out

# BOURNS®

## GDT Optimization Plan

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
			<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>												

### Type Codes:

GDT = Gas Discharge Tube

### Events (occurs at end of indicated quarter):

A = Develop worldwide conversion plan to alternative.

B = Remove from new catalogs (increase price).

C = Remove from selected distribution channel cost and stockable lists (increase resale price).

D = Stop adding to MPOs.

E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).

F = Stop all orders except stock on hand.

G = Stop production, dispose of inventory.

### Notes:

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Scheduled for 2016 phase-out

Scheduled for 2017 phase-out

Scheduled for 2018 phase-out



# Metal Oxide Varistor (MOV) Optimization Plan

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
MOV-07DxxxK	7mm Metal Oxide Varistor	MOV				E, F		G							
MOV-10DxxxK	10mm Metal Oxide Varistor	MOV				E, F		G							
MOV-14DxxxK	14mm Metal Oxide Varistor	MOV				E, F		G							
MOV-20DxxxK	20mm Metal Oxide Varistor	MOV				E, F		G							

**Type Codes:**

MOV = Metal Oxide Varistor

**Events** (occurs at end of indicated quarter):

A = Develop worldwide conversion plan to alternative.

B = Remove from new catalogs (increase price).

C = Remove from selected distribution channel cost and stockable lists (increase resale price).

D = Stop adding to MPOs.

E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).

F = Stop all orders except stock on hand.

G = Stop production, dispose of inventory.

**Notes:**

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- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out



# ChipGuard® ESD Suppressor Optimization Plan

January, 2016

Model	Description	Type	2016				2017				2018				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CG0402MLA-14KG	ChipGuard® ESD Suppressor 0402 VDC 14V	CG	E, F	G											
CG0603MLA-14KE	ChipGuard® ESD Suppressor 0603 VDC 14V	CG	E, F	G											

**Type Codes:**

CG = ChipGuard® ESD Suppressor

**Events** (occurs at end of indicated quarter):

A = Develop worldwide conversion plan to alternative.

B = Remove from new catalogs (increase price).

C = Remove from selected distribution channel cost and stockable lists (increase resale price).

D = Stop adding to MPOs.

E = Remove from industrial/resale price list: issue supplemental price list; publish last order date (increase price, internal).

F = Stop all orders except stock on hand.

G = Stop production, dispose of inventory.

**Notes:**

Any models appearing on this plan are considered mature, are not recommended for new designs and are marked as such on the web site.

- Scheduled for 2016 phase-out
- Scheduled for 2017 phase-out
- Scheduled for 2018 phase-out