



PRODUCT UPDATE MEMO

OPTIMIZATION PLANS

January, 2021

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 last time buy dates. Where available, alternatives are provided.

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

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CRA2512-FZ-R001ELF, CRA2512-FZ-R004ELF	High Power Current Sense Chip Resistors	SMD	A,B												TBD
CRL-FW Series	Low Value Chip Resistors (1 % Tolerance, 1 ohm to 10 ohm Resistance Values)	SMD		A	B										CR Series (Functionally equivalent, but not in identical packages)
4100T Series	Thin Film Molded DIP	DIP		B											None
4300T Series	Thin Film Molded SIP	SIP		B											None
4400T Series	Thin Film Wide Body Gull Wing	SMD		B											None
4800T Series	Thin Film Medium Body Gull Wing	SMD		B											None

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

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:

- A = Last time buy date
- B = Last time ship date



ChipGuard® ESD Suppressor Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CG0805MLA-5.5EA	ESD Protector Array	CG	A	B											None

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:
CG = ChipGuard® ESD Suppressor

Events:
A = Last time buy date
B = Last time ship date



GDT Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>															

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:

GDT = Gas Discharge Tube

Events:

A = Last time buy date

B = Last time ship date



Magnetics Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
07964-RC	Power Inductor	PC			B										None
4551-RC	Power Inductor	PC	B												None
5220-RC	Power Inductor	PC			A	B									None
7870-RC	Power Inductor	PC	B												None
PT91013L	Power Inductor	PC	B												None
PT91014L	Power Inductor	PC	B												None
PT91041L	Power Inductor	PC	B												None
RLB1014-122KAPL	Power Inductor	PC	A		B										RLB1014-122KL
SM51108PEL	Signal Transformer	T			A	B									SM13126PEL
SM51295EL	LAN Transformer	T	A		B										None
SM61071EL	Signal Transformer	T			A	B									None
SM61072EL	Signal Transformer	T			A	B									None
SRP1204	Power Inductor	PC	B												None
SRP1205	Power Inductor	PC	B												None
SRP1206	Power Inductor	PC	B												None

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:

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

Events:

- A = Last time buy date
- B = Last time ship date



Custom Magnetics Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
TMA50004CF	Custom Magnetics	C	B												None
TMP60133AT	Custom Magnetics	C	B												None
BA50735CF	Custom Magnetics	C	B												None
BA50738CF	Custom Magnetics	C	B												None
BA50751CF	Custom Magnetics	C	B												None
BA50752CF	Custom Magnetics	C	B												None
BA50753CF	Custom Magnetics	C	B												None
BA50773CS	Custom Magnetics	C	B												None
BA80165CF	Custom Magnetics	C	B												None
BA80174CF	Custom Magnetics	C	B												None
BA80181CF	Custom Magnetics	C	B												None
BA80182CF	Custom Magnetics	C	B												None
BA80185CF	Custom Magnetics	C	B												None
BS51745CF	Custom Magnetics	C	B												None
TMA50146CF	Custom Magnetics	C	B												None
TMA50147CF	Custom Magnetics	C	B												None
TMA50168CF	Custom Magnetics	C	B												None
TMA50394CT	Custom Magnetics	C	B												None
TMA60289CT	Custom Magnetics	C	B												None
TMA60290CT	Custom Magnetics	C	B												None
TMA60326CT	Custom Magnetics	C	B												None
TMA70118CF	Custom Magnetics	C	B												None
TMA80062CT	Custom Magnetics	C	B												None
TMA80101CF	Custom Magnetics	C	B												None
TMA80140CT	Custom Magnetics	C	B												None
TMS50935CT	Custom Magnetics	C	B												None
TMS50936CT	Custom Magnetics	C	B												None
TMS50941CT	Custom Magnetics	C	B												None
TMS51310CT	Custom Magnetics	C	B												None
TMS51370CT	Custom Magnetics	C	B												None
TMS51503CT	Custom Magnetics	C	B												None
TMS51508CT	Custom Magnetics	C	B												None
TMS51509CF-2	Custom Magnetics	C	B												None
TMS51607CT	Custom Magnetics	C	B												None
TMS51724CF	Custom Magnetics	C	B												None
TMS60900CT	Custom Magnetics	C	B												None
TMS61391CT	Custom Magnetics	C	B												None
TMS61392CT	Custom Magnetics	C	B												None
TMS61393CT	Custom Magnetics	C	B												None
TMS61561CT	Custom Magnetics	C	B												None

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Notes:

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- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:
C = Custom Magnetics

Events:
A = Last time buy date
B = Last time ship date



Custom Magnetics Optimization Plan (Cont'd.)

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
TMS62863CT	Custom Magnetics	C	B												None
TMS63509CT	Custom Magnetics	C	B												None
TMS63702CT	Custom Magnetics	C	B												None
TMS63726CT	Custom Magnetics	C	B												None
TMS63837CT	Custom Magnetics	C	B												None
TMS63928CT	Custom Magnetics	C	B												None
TMS63987CT	Custom Magnetics	C	B												None
TMS80845CS	Custom Magnetics	C	B												None
TMS80896CF	Custom Magnetics	C	B												None
TMS80897CF	Custom Magnetics	C	B												None
TMS80960CT	Custom Magnetics	C	B												None
TMS81004CT	Custom Magnetics	C	B												None
TMS81020CF	Custom Magnetics	C	B												None

Notes:

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- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:
C = Custom Magnetics

Events:
A = Last time buy date
B = Last time ship date



Metal Oxide Varistor (MOV) Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
			<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>												

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:
MOV = Metal Oxide Varistor

Events:
A = Last time buy date
B = Last time ship date



Mini-Breaker (Miniature TCO Device) Optimization Plan

January, 2021

Model	Description	2021				2022				2023				Suggested Alternative
		1	2	3	4	1	2	3	4	1	2	3	4	
AA Series	Very High Current Breaker								A,B					AC Series

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 2021 phase-out

Scheduled for 2022 phase-out

Scheduled for 2023 phase-out

Events:

A = Last time buy date

B = Last time ship date



Multifuse® PTC Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
MF-USML175-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML175/6-2
MF-USML190-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML200/6-2
MF-USML200-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML200/6-2
MF-USML230-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML260/6-2
MF-USML250-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML260/6-2
MF-USML270-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML260/6-2
MF-USML300-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML300/6-2
MF-USML350-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML350/6-2
MF-USML380-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML380/6-2
MF-USML400-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML400/6-2
MF-USML450-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML450/6-2
MF-USML500-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML500/6-2
MF-USML600-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML600/6-2
MF-USML650-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML650/6-2
MF-USML700-2	SMT, 1210, Low Ohmic, 6V	SMT			A	B									MF-USML700/6-2
MF-USML-LAB1	MF-USML Series Design Kit	Kit			A	B									MF-USML/X Series
MF-USML-LAB2	MF-USML Series Design Kit	Kit			A	B									MF-USML/X Series
MF-NSML150-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML150/6-2
MF-NSML175-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML175/6-2
MF-NSML190-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML200/6-2
MF-NSML200-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML200/6-2
MF-NSML260-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML260/6-2
MF-NSML300-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML300/6-2
MF-NSML350-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML350/6-2
MF-NSML380-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML380/6-2
MF-NSML400-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML400/6-2
MF-NSML450-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML450/6-2
MF-NSML500-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML500/6-2
MF-NSML550-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML550/6-2
MF-NSML600-2	SMT, 1206, Low Ohmic, 6V	SMT			A	B									MF-NSML600/6-2
MF-NSML-LAB1	MF-NSML Series Design Kit	Kit			A	B									MF-NSML/X Series
MF-NSML-LAB2	MF-NSML Series Design Kit	Kit			A	B									MF-NSML/X Series
MF-PSML075-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML075/6-2
MF-PSML110-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML110/6-2
MF-PSML150-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML150/6-2
MF-PSML175-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML175/6-2
MF-PSML200-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML200/6-2
MF-PSML260-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML260/6-2
MF-PSML300-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML300/6-2
MF-PSML350-2	SMT, 0805, Low Ohmic, 6V	SMT			A	B									MF-PSML350/8-2

Notes:

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- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

- Type Codes:**
- Kit = Design Kit
 - R = Radial Leaded
 - S = Strap
 - SMT = Surface Mount

- Events:**
- A = Last time buy date
 - B = Last time ship date



Semiconductor Products Optimization Plan

January, 2021

Model	Description	Type	2021				2022				2023				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CDDFN10-3304N	TVS Diode Array	CD	B												CDDFN10-3304NA
CDMSP10-0504M	Diode Array	CD		A			B								CDDFN10-0524P*
CDSOD523-T05C	TVS Diode	CD		A			B								None
CD214A-R150	Chip Diode	CD	A,B												CD214A-S1D
CD214A-R1100	Chip Diode	CD	A,B												CD214A-S1D
CD214A-R1200	Chip Diode	CD	A,B												CD214A-S1D
CD214A-R1400	Chip Diode	CD	A,B												CD214A-S1G
CD214A-R1600	Chip Diode	CD	A,B												CD214A-S1J
CD214A-R1800	Chip Diode	CD	A,B												CD214A-S1K
CD214A-R11000	Chip Diode	CD	A,B												CD214A-S1M
CD214A-R11100	Chip Diode	CD	A,B												CD214A-S1Q
CD214A-R11200	Chip Diode	CD	A,B												CD214A-S1Q
CD214A-R11600	Chip Diode	CD	A,B												CD214A-S1Y
CD214A-R12000	Chip Diode	CD	A,B												CD214A-R12000R
CD214B-R250	Chip Diode	CD	A,B												CD214B-S2D
CD214B-R2100	Chip Diode	CD	A,B												CD214B-S2D
CD214B-R2200	Chip Diode	CD	A,B												CD214B-S2D
CD214B-R2400	Chip Diode	CD	A,B												CD214B-S2G
CD214B-R2600	Chip Diode	CD	A,B												CD214B-S2J
CD214B-R2800	Chip Diode	CD	A,B												CD214B-S2K
CD214B-R21000	Chip Diode	CD	A,B												CD214B-S2M
CD214B-R350	Chip Diode	CD	A,B												CD214B-S3D
CD214B-R3100	Chip Diode	CD	A,B												CD214B-S3D
CD214B-R3200	Chip Diode	CD	A,B												CD214B-S3D
CD214B-R3400	Chip Diode	CD	A,B												CD214B-S3G
CD214B-R3600	Chip Diode	CD	A,B												CD214B-S3J
CD214B-R31000	Chip Diode	CD	A,B												CD214B-S3M
CD214B-R3800	Chip Diode	CD	A,B												CD214B-S3K
CD214A-F150	Chip Diode	CD	A,B												CD214A-FS1D
CD214A-F1100	Chip Diode	CD	A,B												CD214A-FS1D
CD214A-F1150	Chip Diode	CD	A,B												CD214A-FS1D
CD214A-F1200	Chip Diode	CD	A,B												CD214A-FS1D
CD214A-F1400	Chip Diode	CD	A,B												CD214A-FS1G
CD214A-F1600	Chip Diode	CD	A,B												CD214A-FS1J

* Functionally equivalent, but in a smaller package

Note:

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Type Codes:
 CD = Chip Diode
 TF = Telefuse™ Telecom Fuse
 TBU = TBU® HSP Product
 TSP = TISP® Product
 DK = Design Kit

Events:
 A = Last time buy date
 B = Last time ship date



Sensors/Controls Optimization Plan

January, 2021

Model	Size	Description	Type	2021				2022				2023				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
0037 Series	5/8"	Rotary Potentiometer	PC		B											None
0473 Series	15 mm	Rotary Potentiometer	PC		A,B											None
0502 Series	16 mm	Rotary Potentiometer	PC		A,B											None

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

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
- DK = Design Kit
- PS = Precision Sensor

Events:

- A = Last time buy date
- B = Last time ship date



Switch Optimization Plan

January, 2021

Model	Size	Description	Type	2021				2022				2023				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>																

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

Events:

- A = Last time buy date
- B = Last time ship date



Trimmer Optimization Plan

January, 2021

Model	Size	Description	Type	2021				2022				2023				Suggested Alternative
				1	2	3	4	1	2	3	4	1	2	3	4	
<i>NO PRODUCTS CURRENTLY SCHEDULED FOR PHASE-OUT.</i>																

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 2021 phase-out
- Scheduled for 2022 phase-out
- Scheduled for 2023 phase-out

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

Events:
A = Last time buy date
B = Last time ship date