



PRODUCT UPDATE MEMO

OPTIMIZATION PLANS

January, 2020

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, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
4420P-601-250/500	RC Network T-Filters	SMD	B												None
4420P-601-250/500L	RC Network T-Filters	SMD	B												None
4420P-T06-250/500	RC Network T-Filters	SMD	B												None
4420P-T06-250/500L	RC Network T-Filters	SMD	B												None
4420P-601-270/500	RC Network T-Filters	SMD	B												None
4420P-601-270/500L	RC Network T-Filters	SMD	B												None
4420P-T06-270/500	RC Network T-Filters	SMD	B												None
4420P-601-470/500	RC Network T-Filters	SMD	B												None
4120R-601-250/500	RC Network T-Filters	DIP	B												None
4120R-601-250/500L	RC Network T-Filters	DIP	B												None
4120R-601-101/500	RC Network T-Filters	DIP	B												None
4420P-601-250/500	RC Network T-Filters	SMD	B												None
4420P-601-250/500L	RC Network T-Filters	SMD	B												None
4420P-T06-250/500	RC Network T-Filters	SMD	B												None
4420P-T06-250/500L	RC Network T-Filters	SMD	B												None
4420P-601-270/500	RC Network T-Filters	SMD	B												None
4420P-T06-270/500	RC Network T-Filters	SMD	B												None
4420P-601-470/500	RC Network T-Filters	SMD	B												None
4309R-P69-00C	RC Network T-Filters	DIP	B												None
4420P-CN1-00C	RC Network T-Filters	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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

Type Codes:
 SIP = Single In-line Package
 DIP = Dual In-line Package
 SMD = Surface Mount Device
 2NBS/2QSP = Thinfil
 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, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CGF0804TFH-R900-2L	ESD/EMI Protector	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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

Type Codes:
CG = ChipGuard® ESD Suppressor

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



GDT Optimization Plan

January, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
2027-xx-B19xx	2-Pole Gas Discharge Tube	GDT		A		B									2027-xx-B10 (shorter lead length, bent lead tip end)

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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

Type Codes:

GDT = Gas Discharge Tube

Events:

A = Last time buy date

B = Last time ship date



Magnetics Optimization Plan

January, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
PM1038S Series	Power Inductors	PC	B												SRP1038A Series
PM12639S Series	Power Inductors	PC	B												SRP1238A Series
SRP1235 Series	Power Inductors	PC	B												SRP1238A Series
SRP1040 Series	Power Inductors	PC			A		B								SRP1038A 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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 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



Metal Oxide Varistor (MOV) Optimization Plan

January, 2020

Model	Description	Type	2020				2021				2022				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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 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, 2020

Model	Description	2020				2021				2022				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 2020 phase-out

Scheduled for 2021 phase-out

Scheduled for 2022 phase-out

Events:

A = Last time buy date

B = Last time ship date



Multifuse® PTC Optimization Plan

January, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
MF-R055/90-0	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90-2	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90-2-17	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90-AP	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90-AP-17	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90U-0	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90U-2	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R055/90U-AP	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R075/90-0	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R075/90-2	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R075/90-2-17	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R075/90-AP	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-R075/90-AP-17	Radial Leaded, 90 V	R			A	B									Contact Customer Service
MF-RX110	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-0
MF-RX110-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-0-14
MF-RX110-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-2
MF-RX110-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-2-14
MF-RX110-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-AP
MF-RX110-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX110/72-AP-14
MF-RX135	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-0
MF-RX135-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-0-14
MF-RX135-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-2
MF-RX135-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-2-14
MF-RX135-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-AP
MF-RX135-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX135/72-AP-14
MF-RX160	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-0
MF-RX160-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-0-14
MF-RX160-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-2
MF-RX160-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-2-14
MF-RX160-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-AP
MF-RX160-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX160/72-AP-14
MF-RX185	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-0
MF-RX185-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-0-14
MF-RX185-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-2
MF-RX185-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-2-14
MF-RX185-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-AP
MF-RX185-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX185/72-AP-14
MF-RX250	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-0
MF-RX250-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-0-14
MF-RX250-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-2
MF-RX250-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-2-14
MF-RX250-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-AP
MF-RX250-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX250/72-AP-14
MF-RX300	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-0
MF-RX300-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-0-14
MF-RX300-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-2
MF-RX300-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-2-14
MF-RX300-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-AP

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Notes:

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- Scheduled for 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

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

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



Multifuse® PTC Optimization Plan (Continued)

January, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
MF-RX300-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX300/72-AP-14
MF-RX375	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-0
MF-RX375-0-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-0-14
MF-RX375-2	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-2
MF-RX375-2-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-2-14
MF-RX375-AP	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-AP
MF-RX375-AP-14	Radial Leaded, 60 V, Telecom	R			A	B									MF-RX375/72-AP-14
MF-RXLAB	Radial Leaded, 60 V, Telecom	Kit			A	B									None
MF-USML175-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML175/6-2
MF-USML190-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML200/6-2
MF-USML200-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML200/6-2
MF-USML230-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML260/6-2
MF-USML250-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML260/6-2
MF-USML270-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML260/6-2
MF-USML300-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML300/6-2
MF-USML350-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML350/6-2
MF-USML380-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML380/6-2
MF-USML400-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML400/6-2
MF-USML450-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML450/6-2
MF-USML500-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML500/6-2
MF-USML600-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML600/6-2
MF-USML650-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML650/6-2
MF-USML700-2	SMT, 1210, Low Ohmic, 6 V	SMT							A	B					MF-USML700/6-2
MF-NSML150-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML150/6-2
MF-NSML175-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML175/6-2
MF-NSML190-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML200/6-2
MF-NSML200-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML200/6-2
MF-NSML260-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML260/6-2
MF-NSML300-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML300/6-2
MF-NSML350-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML350/6-2
MF-NSML380-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML380/6-2
MF-NSML400-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML400/6-2
MF-NSML450-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML450/6-2
MF-NSML500-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML500/6-2
MF-NSML550-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML550/6-2
MF-NSML600-2	SMT, 1206, Low Ohmic, 6 V	SMT							A	B					MF-NSML600/6-2
MF-PSML075-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML075/6-2
MF-PSML110-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML110/6-2
MF-PSML150-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML150/6-2
MF-PSML175-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML175/6-2
MF-PSML200-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML200/6-2
MF-PSML260-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML260/6-2
MF-PSML300-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML300/6-2
MF-PSML350-2	SMT, 0805, Low Ohmic, 6 V	SMT							A	B					MF-PSML350/8-2

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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

Type Codes:

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

Events:

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



Semiconductor Products Optimization Plan

January, 2020

Model	Description	Type	2020				2021				2022				Suggested Alternative
			1	2	3	4	1	2	3	4	1	2	3	4	
CDDFN10-3304N	TVS Diode Array	CD			A	B									CDDFN10-3304NA
CD0603-S01575	Chip Diode	CD			A	B									None
CD1206-S01575	Chip 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
TISP4G024L1ER-S	Thyristor Surge Protector	TSP	B												None
TISP4G024L1WR-S	Thyristor Surge Protector	TSP	B												None

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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

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

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



Sensors/Controls Optimization Plan

January, 2020

Model	Size	Description	Type	2020				2021				2022				Suggested Alternative	
				1	2	3	4	1	2	3	4	1	2	3	4		
3751H-422-103L 3751H-423-103L	1/2"	Precision Potentiometer	HYB	B													3751H-601-103L 3751H1-602-103L

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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 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

Events:

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



Switch Optimization Plan

January, 2020

Model	Size	Description	Type	2020				2021				2022				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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 phase-out

Events:

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



Trimmer Optimization Plan

January, 2020

Model	Size	Description	Type	2020				2021				2022				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 2020 phase-out
- Scheduled for 2021 phase-out
- Scheduled for 2022 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