

BOURNS Transient Blocking Units

BOURNS

Bourns Transient Protection

RoHS Compliant This product is RoHS compliant.

Pad Designation	
Pad #	1 & 1A 2 3 & 3A 4 & 4A 5 6 & 6A
Apply:	Tip In NC Tip Out Ring Out NC Ring In

NC=Solder to PCB; do not make electrical connection, do not connect to ground

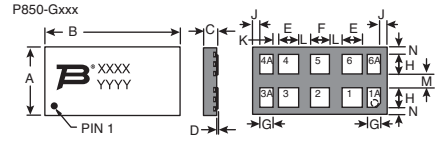
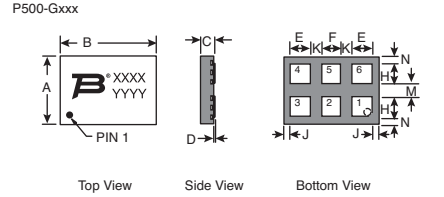
TBU™ P500-G AND P850-G PROTECTORS

- Features:**
- Formerly FulTec brand
 - Extremely high speed performance
 - Blocks high voltages and currents
 - Two TBU™ protectors in one small package
 - Simple, superior circuit protection
 - Minimal PCB area
 - RoHS compliant, UL recognized

	Dimensions: mm (in.)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
P500-G	3.40	5.90	0.80	0.000	1.15	1.05	-	1.10	0.375	0.70	-	0.70	0.375
Min.	(.139)	(.232)	(.031)	(.000)	(.045)	(.041)	-	(.043)	(.015)	(.028)	-	(.028)	(.015)
Typ.	4.00	6.00	0.85	0.025	1.25	1.15	-	1.20	0.425	0.75	-	0.75	0.425
	(.157)	(.236)	(.033)	(.001)	(.049)	(.045)	-	(.047)	(.017)	(.030)	-	(.030)	(.017)
Max.	4.10	6.10	0.90	0.050	1.35	1.25	-	1.30	0.475	0.80	-	0.80	0.475
	(.161)	(.240)	(.035)	(.002)	(.053)	(.049)	-	(.051)	(.019)	(.031)	-	(.031)	(.018)
P850-G	3.40	8.15	0.80	0.000	1.15	1.05	0.725	1.10	0.375	0.25	0.70	0.70	0.375
Min.	(.139)	(.321)	(.031)	(.000)	(.045)	(.041)	(.029)	(.043)	(.015)	(.010)	(.028)	(.028)	(.015)
Typ.	4.00	8.25	0.85	0.025	1.25	1.15	0.825	1.20	0.425	0.30	0.75	0.75	0.425
	(.157)	(.325)	(.033)	(.001)	(.049)	(.045)	(.032)	(.047)	(.017)	(.012)	(.030)	(.030)	(.017)
Max.	4.10	8.35	0.90	0.050	1.35	1.25	0.925	1.30	0.475	0.35	0.80	0.80	0.475
	(.161)	(.329)	(.035)	(.002)	(.053)	(.049)	(.036)	(.051)	(.019)	(.014)	(.031)	(.031)	(.018)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Bourns Part Number	Vimp (V)	Iop (max) (mA)	Iout (max) (mA)	Price Each				Reel Qty.	Price Per Piece
					1	25	50	100		
652-P500-G120-WH	P500-G120-WH	500	100	200	1.33	.81	.74	.61	3000	.48
652-P500-G200-WH	P500-G200-WH	500	200	400	1.33	.81	.74	.61	3000	.48
652-P850-G120-WH	P850-G120-WH	850	100	200	1.55	.98	.85	.74	3000	.59
652-P850-G200-WH	P850-G200-WH	850	200	400	1.55	.98	.85	.74	3000	.59



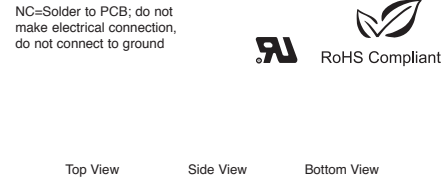
TBU™ P650-U AND P850-U PROTECTORS

- Features:**
- Formerly FulTec brand
 - Extremely high speed perform.
 - Blocks high voltages & currents
 - Low insertion loss
 - Two TBU™ protectors in one small package
 - Very high bandwidth; GHz compatible
 - RoHS compliant, UL recognized

	Dimensions: mm (in.)													
	A	B	C	D	E	F	G	H	J	K	L	N	P	Q
Min.	6.15	7.65	0.80	0.000	0.50	1.20	4.20	2.45	0.20	0.45	0.65	0.20	0.70	3.20
	(.242)	(.301)	(.031)	(.000)	(.020)	(.047)	(.165)	(.096)	(.008)	(.018)	(.026)	(.008)	(.028)	(.126)
Typ.	6.25	7.75	0.85	0.025	0.55	1.25	4.25	2.50	0.25	0.50	0.70	0.25	0.75	3.25
	(.246)	(.305)	(.033)	(.001)	(.022)	(.049)	(.167)	(.098)	(.010)	(.020)	(.028)	(.010)	(.030)	(.128)
Max.	6.35	7.85	0.90	0.050	0.60	1.30	4.30	2.55	0.30	0.55	0.75	0.30	0.80	3.30
	(.250)	(.309)	(.035)	(.002)	(.024)	(.051)	(.169)	(.100)	(.012)	(.022)	(.030)	(.012)	(.031)	(.130)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Bourns Part Number	Vimp (V)	Iop (max) (mA)	Iout (max) (mA)	Price Each				Reel Qty.	Price Per Piece
					1	25	50	100		
652-P650-U180-WH	P650-U180-WH	650	180	360	2.01	1.39	1.18	1.02	3000	.83
652-P650-U260-WH	P650-U260-WH	650	260	520	2.01	1.39	1.18	1.02	3000	.83
652-P850-U180-WH	P850-U180-WH	850	180	360	2.07	1.43	1.22	1.05	3000	.85
652-P850-U260-WH	P850-U260-WH	850	260	520	2.07	1.43	1.22	1.05	3000	.85



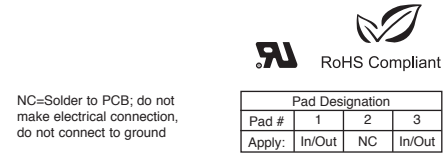
TBU™ C650 AND C850 PROTECTORS

- Features:**
- Formerly FulTec brand
 - Extremely high speed performance
 - Blocks high voltages and currents
 - Very high bandwidth; GHz compatible
 - Small package, minimal PCB area
 - Simple, superior circuit protection
 - RoHS compliant, UL recognized
- Applications:**
- Process control equipment
 - Test and measurement equipment
 - General electronics
 - Combo voice/xDSL linecards
 - Voice linecards
 - MDF, primary protection modules

	Dimensions: mm (in.)									
	A	B	C	D	E	F	H	J	K	N
Min.	3.90	8.15	0.80	0.000	2.55	1.10	3.45	0.20	0.65	0.20
	(.154)	(.321)	(.031)	(.000)	(.100)	(.043)	(.136)	(.008)	(.026)	(.008)
Typ.	4.00	8.25	0.85	0.025	2.60	1.15	3.50	0.25	0.70	0.25
	(.157)	(.325)	(.033)	(.001)	(.102)	(.045)	(.138)	(.010)	(.028)	(.010)
Max.	4.10	8.35	0.90	0.050	2.65	1.20	3.55	0.30	0.75	0.30
	(.161)	(.329)	(.035)	(.002)	(.104)	(.047)	(.140)	(.012)	(.030)	(.012)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Bourns Part Number	Vimp (V)	Iop (max) (mA)	Iout (max) (mA)	Price Each				Reel Qty.	Price Per Piece
					1	25	50	100		
652-C650-100-WH	C650-100-WH	650	100	200	1.87	1.23	1.10	.95	6000	.74
652-C650-180-WH	C650-180-WH	650	180	360	1.87	1.23	1.10	.95	6000	.74
652-C650-260-WH	C650-260-WH	650	260	520	1.87	1.23	1.10	.95	6000	.74
652-C850-180-WH	C850-180-WH	850	180	360	1.94	1.25	1.11	.99	3000	.80
652-C850-260-WH	C850-260-WH	850	260	520	1.94	1.25	1.11	.99	3000	.80



TBU™ P40-G PROTECTOR

- Features:**
- Formerly FulTec brand
 - Extremely high speed performance
 - Low impedance
 - Very high bandwidth; GHz compatible
 - Simple, superior circuit protection
 - RoHS compliant, UL recognized

	Dimensions: mm (in.)											
	A	B	C	D	E	F	G	H	J	K	M	N
Min.	3.90	3.90	0.80	0.000	2.50	0.20	0.75	1.40	0.10	0.25	0.55	0.20
	(.154)	(.154)	(.031)	(.000)	(.100)	(.008)	(.030)	(.055)	(.004)	(.010)	(.022)	(.008)
Typ.	4.00	4.00	0.85	0.025	2.60	0.25	0.80	1.45	0.15	0.30	0.60	0.25
	(.157)	(.157)	(.033)	(.001)	(.102)	(.010)	(.031)	(.057)	(.006)	(.012)	(.024)	(.010)
Max.	4.10	4.10	0.90	0.050	2.65	0.30	0.85	1.50	0.20	0.35	0.65	0.30
	(.161)	(.161)	(.035)	(.002)	(.104)	(.012)	(.033)	(.059)	(.008)	(.014)	(.026)	(.012)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Bourns Part Number	Vimp (V)	Iop (max) (mA)	Iout (max) (mA)	Price Each				Reel Qty.	Price Per Piece
					1	25	50	100		
652-P40-G240-WH	P40-G240-WH	40	240	480	1.46	.93	.84	.70	3000	.55

