

Bill of Materials

MCP1642B Two Cells to USB Power

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 Part Number: ADM00556
 Revision: 1
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 Drawn By: Stefan Ponova



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	BT1	HOLDER BATTERY 2CELL AA PC MNT	Keystone Electronics	2462	Digi-Key	2462K-ND
2	CIN, COUT	CAP CER 10uF 6.3V 10% X7R SMD 0805	TDK Corporation	CGA4J1X7R0J106K125A	Digi-Key	445-6971-1-ND
1	J1	CONN RCPT USB-A Female R/A SMD	Würth Electronics Inc	62900416021	Würth Electronics Inc	62900416021
4	J2, J3, J4, J5	CON TP LOOP Tin SMD	Harwin Inc	S1751-46R	Digi-Key	952-1478-1-ND
1	L1	INDUCTOR 4.7uH 2A 20% SMD XFL4020	Coilcraft	XFL4020-472MEB	Coilcraft	XFL4020-472MEB
1	LD1	DIO LED RED 2V 30mA SMD 0603	Würth Electronics Inc	150060RS75000	Würth Electronics Inc	150060RS75000
1	RPG	RES 1.5k 1% 1/8W SMD 0805	Vishay Dale	CRCW08051K50FKEA	Digi-Key	541-1.50KCCT-ND
2	R1,R2	RES 15k 1% 1/8W SMD 0805	Samsung	RC2012F153CS	Digi-Key	1276-5341-1-ND
1	R3	RES 1M 1% 1/8W SMD 0805	Vishay Dale	CRCW08051M00FKEA	Digi-Key	541-1.00MCCT-ND
1	SW1	SWITCH SPST 24V 25mA 418121270801 SMD	Würth Electronics Inc	418121270801	Würth Electronics Inc	418121270801

Microchip Parts listed below

1	U1	IC CONV DC-DC STEPUP SYNC MSOP-8	Microchip Technology	MCP1642B-50I/MS	Microchip	

Mechanical Parts to be added in the package

1	One Roll of tape will be enough to cover 73 assemblies.	TAPE VHB WHITE 3/4" LOW SURFACE	3M (TC)	3/4-5-4932	Digi-Key	3M10158-ND

Do Not Populate Parts listed below

1	RB	RES 309k 1% 1/8W SMD 0805	Panasonic	ERJ-6ENF3093V	Digi-Key	P309KCCT-ND
1	RT	RES 976k 1% 1/8W SMD 0805	Panasonic	ERJ-6ENF9763V	Digi-Key	P976KCCT-ND

Approved	Notes
	<p>Additionally to the soldering pads, double sided adhesive tape will also be used to fix the battery holder The double sided tape will be applied between the battery holder and the bottom side of the board One Roll of tape will be enough to cover 73 assemblies.</p>