

Bill of Materials

SR087 Inductorless Switching PS Demoboard

Document Number: 02-10836
Board Number: 04-10836
Part Number: ADM00947
Revision: 1
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Drawn By: Cristian Papuc



Creation Date: 10:50:51 AM
Print Date: 2:46:08 PM

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C1, C4	CAP CER 0.1uF 25V 10% X7R SMD 0805	Murata	GRM21BR71E104KA01L	Digi-Key	490-1673-1-ND
1	C2	CAP CER 1uF 25V 10% X7R SMD 0805	AVX	08053C105K4Z2A	Digi-Key	478-6357-2-ND
1	C3	CAP ALU 470uF 25V 20% RAD P5D10H16	Nichicon	UHE1E471MPD6	Digi-Key	493-1553-ND
1	D1	DIO RECT BRIDGE DF10S-T 1.1V 1A 1000V SMD DF-S	Diodes Incorporated	DF10S-T	Digi-Key	DF10S-TDICT-ND
2	FH1	MECH HW FUSE HOLDER 5mm TH	Littelfuse Inc.	01110501Z	Digi-Key	F4189-ND
3	J1, J2, J3	CON TERMINAL 5.08mm 1x2 Female 16-22AWG 12A TH R/A	On Shore Technology Inc	OSTHD020080	Digi-Key	ED2770-ND
1	MOV1	RES VARISTOR MO 275V 43J Disc 10mm	EPCOS (TDK)	B72210S0271K151	Digi-Key	495-5961-1-ND
1	Q1	TRANS IGBT N-CH FGD5T120SH 1200V 5A 69W TO-252-3	ON Semiconductor	FGD5T120SHCT-ND	Digi-Key	FGD5T120SHCT-ND
2	R1, R2	RES TKF 200k 1% 1/4W SMD 1206	Vishay Dale	CRCW1206200KFKEA	Digi-Key	541-200KFCT-ND
2	R3, R4	RES TKF 510k 1% 1/4W SMD 1206	Yageo	RC1206FR-07510KL	Digi-Key	311-510KFRCT-ND
1	R5	RES TKF 113k 1% 1/8W SMD 0805	Yageo	RC0805FR-07113KL	Digi-Key	311-113KCRCT-ND
1	R6	RES TKF 12.4k 1% 1/8W SMD 0805	Yageo	RC0805FR-0712K4L	Digi-Key	311-12.4KCRCT-ND
1	R7	RES TKF 20k 1% 1/8W SMD 0805	Yageo	RC0805FR-0720KL	Digi-Key	311-20.0KCRCT-ND
1	R8	RES TKF 0R 1/8W SMD 0805	Panasonic	ERJ-6GEY0R00V	Digi-Key	P0.0ACT-ND

Microchip Parts listed below

1	IC1	MCHP ANALOG VOLTAGE REG ADJ SR087SG-G SOIC-8	Microchip Technology	SR087SG-G	Microchip Tech	SR087SG-G
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Mechanical Parts to be added in the package

1	F1	MECH HW FUSE 1.25A 250V 5X20 SLOW	Littelfuse Inc.	02151.25MXP	Digi-Key	F1702-ND
1	LABEL1	LABEL, NEED HELP WITH ASSY/SERIAL				
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND

PCB

1	PCB1	Printed Circuit Board		04-10836-R1		
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Do Not Populate Parts listed below

1	C5	CAP CER 0.1uF 25V 10% X7R SMD 0805	Murata	GRM21BR71E104KA01L	Digi-Key	490-1673-1-ND

Approved	Notes	Description