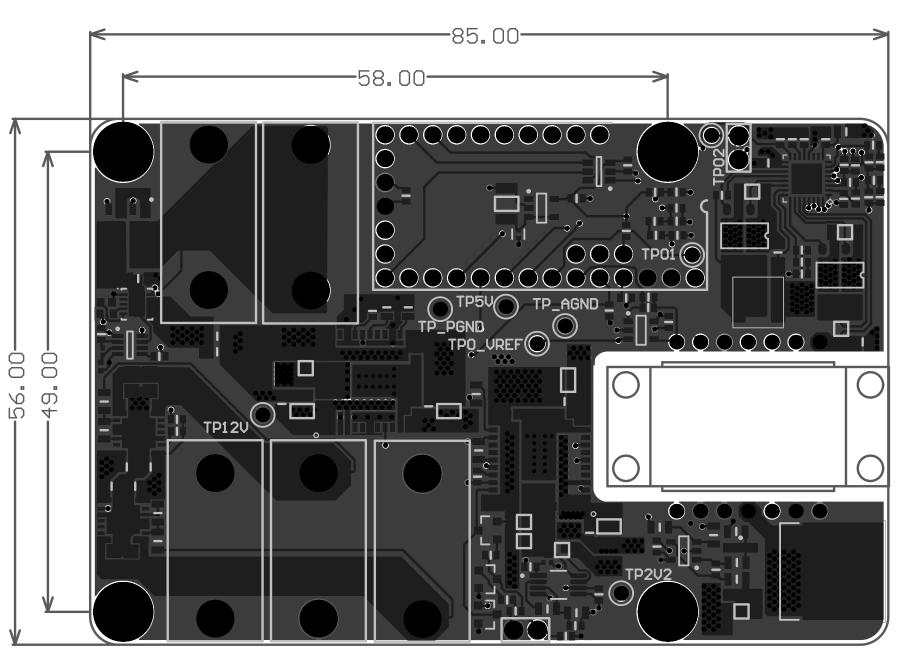


Icrease via size? 10 mil?



.ine#	Name	Description	Designator	Quantity	Procurement	Special Note	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	SIL02	2.54mm Header 1x2	J6, J7	2 cuantity	Instructions Turnkey	Special Note	TE Connectivity	5-146274-2	Volume Production	Avnet	5-146274-2	0.15984	0.31968
	5001	Test Point, Black, 1-Pin THD, RoHS, Bulk	TP2V2, TP5V, TP12V, TP_AGND, TP_PGND, TP01, TP02, TP0_VREF	8	Turnkey		Keystone Electronics	5001	Volume Production	Mouser	534-5001	0.41	3.28
	100pF 10nF	603 Capacitor 603 Capacitor	C57	1	Turnkey Turnkey		Kyocera AVX Kyocera AVX	06033C101KAT2A 06035C103KAT2A	Volume Production Volume Production	Newark Newark	92AH6330 88W4176	0.02	0.02
	ADN8831ACPZ-REEL7	A High Efficiency TEC Controller Solution	U19	1	Consignment	No Overage Available!	Analog Devices	ADN8831ACPZ-REEL7	Volume Production	Digi-Key	ADN8831ACPZ-REEL7CT- ND	5.500	0.000
	BLM15AG102SN1D	FERRITE BEAD 1 KOHM 0402 1LN	FB1, FB2	- 2	Turnkey	Available:	Murata	BLM15AG102SN1D	Volume Production	Mouser	81-BLM15AG102SN1D	0.1	0.2
	BSC150N03LD G	N-Channel OptiMOS 3 Power-Transistor, 30 V VDS, 20 A ID, -55 to 150 degC, PG-TDSON-8-4, Reel,	Q6	1	Turnkey		Infineon	BSC150N03LDG	Volume Production	Mouser	726-BSC150N03LDGATMA	1.04	1.04
	1uF	Green 603 Capacitor	C21	1	Turnkey		KEMET	C0603C105K3PACTU	Volume Production	Newark	36X2618	0.023	0.023
		603 Capacitor 603 Capacitor	C1 C28. C34	1	Turnkey Turnkey		KEMET	C0603C121J5GACTU C0603C333K3RACTU	Volume Production Volume Production	Newark Newark	78H7742 07X0804	0.002	0.002
	47pF	603 Capacitor	C2 C56		Turnkey		KEMET	C0603C470J3GACTU	Volume Production	Newark	78H8528	0.025	0.025
	4.7nF 470nF	603 Capacitor 603 Capacitor	C5		Turnkey Turnkey		KEMET KEMET	C0603C472J5GACTU C0603C474K4RACTU	Volume Production Volume Production	Newark Newark	05AC7998 12AC0600	0.109 0.139	0.109
	4.7uF 100uF	805 Capacitor 1206 Capacitor	C12, C13 C26, C27, C33	3	Turnkey Turnkey		KEMET TDK	C0805C475K3PACTU C3216X5R1A107M160AC	Volume Production Volume Production	Newark Newark	36X2755 12T1945	0.071 0.573	0.142
	68uF	1206 Capacitor	C9, C59	- 2	Turnkey		TDK	C3216X5R1A686M160AC	Volume Production	Arrow Electronics	C3216X5R1A686M160AC	1.27	2.53
	100nF	603 Capacitor	C3, C8, C10, C14, C16, C24, C25, C31, C32, C51, C52, C53, C54, C58, C62	15	Turnkey		Yageo	CC0603KRX7R8BB104	Volume Production	Newark	65R8226	0.031	0.465
	100k	603 Resistor	R15, R23, R29, R51, R55		Turnkey		TE Connectivity	CPF0603B100KE1	Volume Production	Arrow	CPF0603B100KE1	0.6287	3.14
	3.65k		R50	1	Turnkey		Vishay	CRCW04023K65FKED	Volume Production	Electronics			
	4.99k	603 Resistor	R34	1	Turnkey		Vishay	CRCW06034K99FKEA	Volume Production	RSComponent s	6790490	0.053	2.65
	11.5k 20k	603 Resistor 603 Resistor	R11 R1, R37	1	Turnkey Turnkey		Vishay Vishay	CRCW060311K5FKEA CRCW060320K0FKEA	Volume Production Volume Production				
	20k	603 Resistor	R32, R41, R42		Turnkey		Vishay	CRCW060320K0FKEA	Volume Production				
	30k 249k	603 Resistor 603 Resistor	R36 R44, R45		Turnkey Turnkey		Vishay Vishay	CRCW060330K0FKEA CRCW0603249KFKEA	Volume Production Volume Production	Arrow	CRCW0603249KFKEA	0.005	0.01
	CSD18511KTT	40-V, N channel NexFET™ power MOSFET, single	U12		-		Texas Instruments	CSD18510KTT	Volume Production	Electronics Digi Koy	296-50718-1-ND	5.003	0.01
	0.01	D2PAK, 2.6 mOhm 1206 Resistor	RS1, RS2		Consignment Turnkey		Riedon	CSD18510K11 CSR1206-0R01F1	volume moduction	Digi-Key Digi-Key	296-50/18-1-ND 696-1374-1-ND	0.59	1.18
	DAC121S101CIMK/NOPB	12-Bit Micro Power, RRO Digital-to-Analog Converter, 6-pin Tiny SOT23, Pb-Free	U1	1	Consignment		TI National Semiconductor	DAC121S101CIMK/NOPB	Volume Production	Mouser	926-DAC121S101CIMKNO	2.94	2.94
	Teensy3.2_funny		N3	1	DNP		SparkFun	DEV-13736		Digi-Key	1568-1231-ND	21.88	21.88
	EM33X	5W Cooled 9XX Multimode Lasers in 14-Pin Package	U11		DNP		Gooch and Housego	EM33X	Manual Solution				
	3.9K	805 Resistor	R3 R14	1	Turnkey		Panasonic Panasonic	ERA6AEB392V ERA-3AEB102V	Volume Production Volume Production	Newark Mouser	08N2170 667-ERA-3AEB102V	0.05	0.05
	1k	603 Resistor	R46	1	Turnkey		Panasonic	ERA-3AEB103V	Volume Production	RSComponent		0.508	2.54
	10k	603 Resistor	R10. R26. R30	3	Turnkey		Panasonic	ERA-3AEB103V	Volume Production	RSComponent	0566890	0.508	2.54
	10k	603 Resistor	R38	l .	Turnkey		Panasonic	ERA-3AEB103V	Volume Production	RSComponent	0566890	0.508	2.54
					. ,				Volume Production	S			
	63.4k 16.5k	805 Resistor 603 Resistor	R21		Turnkey Turnkey		Panasonic Panasonic	ERA-6AEB6342V ERJ3EKF1652V	Volume Production	Electronics Newark	ERA-6AEB6342V 65T8349	0.2779	0.2779
	10k	BOD REJORDI	R53, R56, R58		Turnkey		Panasonic	ERJ-2GEJ103X	Volume Production				
	2 kOhm 24.3k	603 Resistor	R28		Turnkey		Panasonic Panasonic	ERJ-3EKF2001V ERJ-3EKF2432V	Volume Production Volume Production	Digi-Key Allied	P2.00KHTR-ND 70265735	0.00546	0.016
	24.9k		R43							Electronics Allied			
	24.9K 169k	603 Resistor 805 Resistor	R18		Turnkey Turnkey		Panasonic Panasonic	ERJ-3EKF2492V ERJ-6ENF1693V	Volume Production Volume Production	Electronics Newark	70265738 51W9910	0.016	0.016
	0.025	1206 Resistor	R7	1	Turnkey		Panasonic ON	ERJ-8CWFR025V		Mouser	667-ERJ-8CWFR025V	0.57	0.57
	DMN6140L-13	MOSFET N-CH 60V 1.6A SOT23	Q3, Q4, Q5	3	Consignment Consignment		Semiconductor / Fairchild	FDN86501LZ	NAR	Mouser	512-FDN86501LZ	1.85	5.55
	22uF	1210 Capacitor	C7, C22, C23, C29, C30		Turnkey		Murata	GRM32ER61E226KE15L	Not Recommended for New Design	Mouser	81-GRM32ER61E226KE15	0.8	4
	1uF	805 Capacitor	C11	1	Turnkey		Murata	GRM216R61E105KA12D	Not Recommended for New Design	Arrow Electronics	GRM216R61E105KA12D	0.3514	0.3514
	22 uF		C37, C38, C45, C46	4	Turnkey		Murata	GRM219R61A226MEA0D	Not Recommended for New Design	Digi-Key	490-9951-1-ND	0.5	. 2
	47uF INA201AIDGKR	805 Capacitor IC CURRENT MONITOR 3.5% 8VSSOP	C55		Turnkey Consignmnet		Murata Texas Instruments	GRT21BR60J476ME13L	Volume Production Volume Production	Newark Mouser	64AJ4452 595-INA201AIDGKR	0.232	0.232
	I M4128RMF-2 5	Precision Micropower Series Voltage Reference, 5- pin SOT-23	U4	1	Consignment		TI National Semiconductor	LM4128DQ1MF2.5/NOPB	Volume Production	Digi-Key	296- LM4128DQ1MF2.5/NOPB CT-ND		3.12
	LMP2021MFE/NOPB	Zero Drift, Low Noise, EMI Hardened Amplifier, 5-	U5. U7		? Turnkey		TI National	LMP2021MFE/NOPB	Volume Production	Digi-Key	LMP2021MFE/NOPBCT-	3.71	7.42
	LMZ31707RVQT	pin SOT-23, Pb-Free Non-Isolated DC/DC Converters 7A Power Module	U9, U14		Consignment	No Overage	Semiconductor Texas Instruments		Volume Production	Digi-Key	ND 296-37136-1-ND	0.71	7.74
		w/ 2.95V-17V Input UV, OV and Reverse Supply Protection Controller, 2.5 to 34 V Vin, 8-pin SOT23 (TS8-8), 0 to 70 degC,	U8	1	Turnkey	Available!	Analog Devices / Linear Technology	LTC4365CTSR#TPMPRF	Volume Production	Mouser	584-C4365CTS8TRMPBF	4.52	4.52
	NIS5420	Pb-Free, Mini Tape and Reel	U6	1	l Consignment		ON Semiconductor	NIS5420MT6TXG	Volume Production	Arrow Electronics	NIS5420MT6TXG	0.9963	0.9963
	3.01k 3.3k		R16 R52, R54, R57		Turnkey Turnkey		Yageo Yageo	RC0402FR-073K01L RC0402FR-073K3I	Volume Production Volume Production	Mouser Mouser	603-RC0402FR-073K01L	0.1 0.014	0.1
		Chip Resistor, 10 Ohm, +/- 1%, 0.1 W, -55 to 155	R13		Turnkey		Yageo	RC0603FR-0710RL	Volume Production	Mouser	603-RC0603FR-0710RL	0.014	0.14
	90k	degC, 0603 (1608 Metric), RoHS, Tape and Reel 603 Resistor	R8, R9, R39	3	Turnkey		Yageo	RC0603FR-07390KL	Volume Production	Mouser	603-RC0603FR-07390KL	0.024	0.24
	0	603 Resistor 603 Resistor	R47 R17, R20	1	Turnkey Turnkey		Yageo Yageo	RC0603JR-070RL RC0603JR-070RP	Volume Production Volume Production	Mouser Digi-Key	603-RC0603JR-070RL YAG1307CT-ND	0.1 0.1	0.1
		805 Resistor 805 Resistor	R6, R24, R27, R31 R19		Turnkey Turnkey		Yageo Yageo	RC0805FR-0710KL RC0805FR-07536RL	Volume Production Volume Production	Newark Digi-Key	85X1799 311-536CRCT-ND	0.006	0.024
	1k	805 Resistor	R4		Turnkey		Susumu	RG2012P-102-B-T5	Volume Production	Mouser	754-RG2012P-102-B-T5	0.37	0.37
	5	805 Resistor	R35	1	Turnkey		Cyntec	RLT1220-F-5R00-FNH		Digi-Key	2037-RLT1220-F-5R00- FNHCT-ND	0.52	0.52
	196	805 Resistor 805 Resistor	R5 R22		Turnkey Turnkey		Stackpole Electronics TE Connectivity	RNCF0805AKT10R0 RP73PF2A196RBTDF	Volume Production Volume Production	Arrow Electronics	RNCF0805AKT10R0	0.9082	
	62K	805 Resistor 805 Resistor	R2 R33	1	Turnkey Turnkey		Susumu Susumu	RR1220P-623-D RR1220P-2321-D-M	Volume Production Volume Production	Digi-Key Mouser	RR12P62.0KDCT-ND 754-RR1220P-2321D-M	0.1 0.1	
	4.75k	603 Resistor	R48		Turnkey		Yageo	RT0603BRD074K75L	Volume Production	Mouser	603-RT0603BRD074K75L	0.32	0.32
	3.3uH	Bourns SRP0520 3.3uH 4.8A Inductor	L1	1	Turnkey		Bourns	SRP0520-3R3K	Volume Production	Arrow Electronics	SRP0520-3R3K	0.5721	0.572
	249 kΩ TPSM53603RDAR	603 Resistor 36-V, 3-A step-down power module in small 5.5 x 5 x 4-mm Enhanced HotRod™ QFN with simple	R49 U15, U17	2	Turnkey Consignment	No Overage Available!	Vishay Dale Texas Instruments	TNPW0603249KBEEA TPSM53603RDAR	Volume Production	Avnet Digi-Key	05R2341 296-TPSM53603RDARCT- ND	0.143	0.14
	1uF	footprint 603 Capacitor	C4		Turnkey	, valiable!	Taiyo Yuden	UMK107BJ105KA-T	Volume Production	Digi-Key	587-2400-1-ND	0.18	0.18
	2.5k	805 Resistor 603 Capacitor	R25 C35, C36, C43, C44	1	Turnkey Turnkey		VPG Foil Resistors Murata	Y16292K50000T9R ZRB18AR61E106ME01L	Volume Production	Digi-Key Newark	Y1629-2.50KACT-ND 03AC4785	8.38 0.167	8.38
		MOSFET pair	01. 02		Consignment		Diodes	ZXMC3F31DN8TA	. Sideric i roddction	Mouser	522-ZXMC3F31DN8TA	0.187	