

### LM5122 Boost

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB	Printed Circuit Board	Any	PMP7936	1
C1	CAP, CERM, 470pF, 100V, +/-5%, C0G/NP0, 0805	MuRata	GRM2165C2A471JA01D	1
C3, C4, C7	CAP, AL, 470uF, 63V, +/-20%, 0.082 ohm, SMD	Panasonic	EEV-FK1J471M	3
C5, C6	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 1206	MuRata	GRM319R71H104KA01D	2
C8	CAP, CERM, 1uF, 100V, +/-20%, C Series, 1206	TDK	C3216X7R2A105M	1
C9	CAP, CERM, 0.33uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C334KA01D	1
C10	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H100JA01D	1
C11	CAP CER 4.7UF 10V 10% X6S 0603	TDK Corporation	C1608X6S1A475K	1
C12	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H101JA01D	1
C14	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA	1
C15	CAP, CERM, 4.7uF, 50V, +/-10%, X5R, 0805	TDK	C2012X5R1H475K125AB	1
C16	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E104KA01D	1
C17	CAP, CERM, 680pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H681JA01D	1
C18	CAP, CERM, 0.015uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H153KA01D	1
C101, C102, C103, C104, C105, C106, C107, C108, C109, C110	CAP, CERM, 10uF, 50V, +/-20%, X7S, 1210	TDK	C3225X7S1H106M	10
D2, D101, D102	Diode, Schottky, 60V, 1A, SOD-123F	NXP Semiconductor	PMEG6010CEH,115	3
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
H5, H6, H7, H8	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
L1	Inductor, Shielded E Core, Ferrite, 4.7uH, 30A, 0.0015 ohm, SMD	Coilcraft	SER2915L-472KL	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
Q1, Q2	MOSFET, N-CH, 40V, 100A, LFPK	NXP Semiconductor	PSMN2R6-40YS	2
R1	RESISTOR 7.5 OHM 3/4W 5% 2010	Panasonic	ERJ-12ZYJ7R5U	1
R2	RES, 0.003 ohm, 1%, 1W, 2512	Panasonic	ERJ-M1WSF3M0U	1
R3, R4	RES, 100 ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100RFKEA	2
R5, R6, R8, R12	RES, 0 ohm, 5%, 0.1W, 0603	Panasonic	ERJ-3GEY0R00V	4
R10	RES, 47.5k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060347K5FKEA	1
R11	RES, 3.9 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06033R90JNEA	1
R13	RES, 18.2k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060318K2FKEA	1
R14	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
R16	RES, 36.5k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060336K5FKEA	1
R17	RES, 27k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060327K0JNEA	1
R18	RES, 2.74k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032K74FKEA	1
R19	RES, 28.7k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060328K7FKEA	1
R20	RES, 20 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060320R0JNEA	1
TP1, TP2, TP3, TP4	Standard Banana Jack, Uninsulated, 8.9mm	Keystone	575-8	4
TP5, TP7	Test Point, TH, Multipurpose, Red	Keystone	5010	2
TP6, TP8, TP10	Test Point, TH, Multipurpose, Black	Keystone	5011	3

<b>Designator</b>	<b>Description</b>	<b>Manufacturer</b>	<b>PartNumber</b>	<b>Quantity</b>
TP9, TP11	Test Point, TH, Miniature, White	Keystone	5002	2
TP12	Test Point, TH, Multipurpose, White	Keystone	5012	1
U1		TI	LM5122MH	1

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