

## Step Down Converter with Input Overvoltage Protection - PMP9757

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
C1, C3	2	10uF	CAP, CERM, 10uF, 6.3V, +/-20%, X5R, 0603	0603	GRM188R60J106ME84	MuRata
C2, C6	2	22uF	CAP, CERM, 22uF, 10V, +/-20%, X5R, 0603	0603	CL10A226MP8NUNE	Samsung
C4	1	0.1uF	CAP, CERM, 0.1uF, 16V, +/-10%, X5R, 0603	0603	GRM188R61C104KA01 D	MuRata
C7	1	3300pF	CAP, CERM, 3300pF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E332KA01 D	MuRata
D1, D2	2	15V	Diode, Zener, 15V, 300mW, SOD-523	SOD-523	BZT52C15T-7	Diodes Inc.
J1, J2, J4	3		Header, TH, 100mil, 6x1, Gold plated, 230 mil above insulator	6x1 Header	TSW-106-07-G-S	Samtec
L1	1	2.2uH	Inductor, Shielded, Composite, 2.2uH, 5.5A, 0.04 ohm, SMD	4x2.1x4mm	XAL4020-222MEB	Coilcraft
Q1	1	-40V	MOSFET, P-CH, -40V, -8.7A, SOIC-8	SOIC-8	SI4401BDY	Vishay-Siliconix
Q2	1	0.15V	Transistor, PNP, 50V, 0.1A, SOT-323	SOT-323	PDTA124EU,115	NXP Semiconductor
Q3	1	0.15V	Transistor, NPN, 50V, 0.1A, SOT-323	SOT-323	PDTC114EU,115	NXP Semiconductor
R1	1	680k	RES, 680k ohm, 1%, 0.1W, 0603	0603	CRCW0603680KFKEA	Vishay-Dale
R2	1	130k	RES, 130k ohm, 1%, 0.1W, 0603	0603	CRCW0603130KFKEA	Vishay-Dale
R3, R4, R5	3	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishay-Dale
U1	1		Buck Step Down Regulator with 3 to 17 V Input and 0.9 to 6 V Output, -40 to 85 degC, 16-Pin QFN (RGT), Green (RoHS & no Sb/Br)	RGT0016C	TPS62130RGTR	Texas Instruments

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