



# Bill of Materials

TI DESIGNS

PMP9777 Getting Power from Earphone

Item	Qty	Designator	Value	Part Description	Manufacturer	Manufacturer Part Number	Package Reference
1	1	PCB		Printed Circuit Board		PCB	
2	1	C1	47uF	CAP, CERM, 47 $\mu$ F, 6.3 V, +/- 20%, X5R, 0603	Murata	GRM188R60J476M	0603
3	3	C2, C7, C8	10uF	CAP, CERM, 10 $\mu$ F, 6.3 V, +/- 20%, X5R, 0603	Kemet	C0603C106M9PACTU	0603
4	1	C3	0.1uF	CAP, CERM, 0.1 $\mu$ F, 6.3 V, +/- 10%, X5R, 0402	Murata	GRM155R60J104KA01D	0402
5	3	C4, C5, C6	100uF	CAP, CERM, 100 $\mu$ F, 4 V, +/- 20%, X5R, 0805	Murata	GRM21BR60G107ME15L	0805_HV
6	2	D1, D2		Diode, Schottky, 20 V, 1 A, SOD-323	ON semi	NSR0320MW2T1-D	NSR0320
7	5	J1, J2, J3, J4, J5		Header, 100mil, 2x1, Gold, TH	SAMTEC	TSW-102-07-G-S	TSW-102-07-G-S
8	1	L1	4.7uH	Inductor, Wirewound, 4.7 $\mu$ H, 0.95 A, 0.38 ohm, SMD	Taiyo Yuden	MAKK2016T4R7M	MAKK2016
9	1	Q1		MOSFET, N/P-CH, 30 V, 1.5 A, 1.0x0.35x0.6mm	TI	CSD17483F4T	YJC0003A
10	1	R1	100 ohm	RES, 100, 1%, 0.1 W, 0603	Vishay	CRCW0603100RFKEA	0603
11	1	R4	402 ohm	RES, 402, 1%, 0.1 W, 0603	Vishay	CRCW0603402RFKEA	0603
12	1	U1		Low Input Voltage Synchronous Boost with Ultra-Low Quiescent Current and Integrated LDO/Load Switch, DSE0006A	TI	TPS610981DSET	DSE0006A
13	1	U2		Single 1.8V Low Power Comparators with Rail-to-Rail Input, 5-pin SOT-23	TI	LMV7271MFX	MF05A_N

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