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TPS54623 5V@3A

# PMP10774

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
C1	1	10uF	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	0805	GRM21BR61C106KE15L	MuRata		
C2	1	0.01uF	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	0402	C1005X7R1E103K	TDK		
C3	1	0.1uF	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X5R, 0402	0402	GRM155R61C104KA88D	MuRata		
C4	1	5600pF	CAP, CERM, 5600 pF, 10 V, +/- 10%, X5R, 0201	0201	GRM033R61A562KA01D	MuRata		
C6	1	180pF	CAP, CERM, 180 pF, 16 V, +/- 10%, X7R, 0201	0201	GRM033R71C181KA01D	MuRata		
C7	1	100uF	CAP, CERM, 100 uF, 6.3 V, +/- 20%, X5R, 1206	1206	JMK316BJ107ML-T	Taiyo Yuden		
C8	1	18pF	CAP, CERM, 18 pF, 50 V, +/- 5%, COG/NP0, 0603	0603	06035A180JAT2A	AVX		
J1, J2	2		Terminal Block, 3.5 mm, 2x1, Tin, TH	Terminal Block, 3.5 mm, 2x1, TH	39357-0002	Molex		
L1	1	5.6uH	Inductor, Shielded, Composite, 5.6 uH, 21.2 A, 0.01 ohm, SMD	Inductor, 11.3x10x10mm	XAL1010-562MEB	Coilcraft		
R1	1	47k	RES, 47 k, 5%, 0.063 W, 0402	0402	CRCW040247K0JNED	Vishay-Dale		
R2	1	18.7k	RES, 18.7 k, 1%, 0.063 W, 0402	0402	CRCW040218K7FKED	Vishay-Dale		
R3	1	100k	RES, 100 k, 1%, 0.063 W, 0402	0402	CRCW0402100KFED	Vishay-Dale		
R4	1	5.62k	RES, 5.62 k, 1%, 0.063 W, 0402	0402	CRCW04025K62FKED	Vishay-Dale		
R5	1	49.9	RES, 49.9, 1%, 0.063 W, 0402	0402	CRCW040249R9FKED	Vishay-Dale		
R6	1	20.5k	RES, 20.5 k, 1%, 0.063 W, 0402	0402	CRCW040220K5FKED	Vishay-Dale		
R7	1	4.53k	RES, 4.53 k, 1%, 0.063 W, 0402	0402	CRCW04024K53FKED	Vishay-Dale		
R8	1	100k	RES, 100 k, 5%, 0.063 W, 0402	0402	CRCW0402100KJNED	Vishay-Dale		
TP1, TP3, TP4, TP6	4	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
TP2, TP5	2	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
U1	1		4.5V to 17V Input, 6A Synchronous Step Down SWIFT™ Converter with Light Load, Efficiency and Hiccup Over Current Protection, RHL0014A	RHL0014A	TPS54623RHLR	Texas Instruments	TPS54623RHLT	Texas Instruments

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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