

**Buck converter with 50-275Vin (AC) and 9Vout/1.1W**

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
!PCB1	1		Printed Circuit Board		PMP9176	Any	-	-
C1	1	47uF	CAP ALUM 47UF 16V 20% RADIAL	5x7mm	EEU-FC1C470	Panasonic		
C2	1	22pF	CAP. CERM. 22pF, 50V, +/-5%, COG/NP0, 0603	0603	06035A220JAT2A	AVX		
C3	1	150uF	CAP ALUM 150UF 25V 20% RADIAL		EEU-FR1E151B	Panasonic Electronic Compon		
C4	1	10uF	CAP ALUM 10UF 400V 20% RADIAL	10x12.5mm	EKMG401ELL100MJ20S	United Chemi-Con		
C5	1	2.2uF	CAP ALUM 2.2UF 400V 20% RADIAL	8x11	400LLE2R2MEFC8X9	Rubycon		
C6	1	0.1uF	CAP. CERM. 0.1uF, 16V, +/-5%, X7R, 0603	0603	0603YC104JAT2A	AVX		
C101	1	1uF	CAP. CERM. 1uF, 25V, +/-10%, X7R, 1206	1206	12063C105KAT2A	AVX		
D1	1	40V	Diode, Schottky, 40V, 0.5A, SOD-323	SOD-323	B0540WS-7	Diodes Inc.		
D2	1	600V	DIODE FAST REC 600V 1A DO214AC	SMA	ES1J-TP	Diodes Inc.		
D3	1	1000V	Diode, P-N, 1000V, 1A, TH	DO-41	1N4007	Fairchild Semiconductor		
D4	1	600V	Diode, Ultrafast, 600V, 1A, SMB	SMB	MURS160-13-F	Diodes Inc.		
L1	1	1mH	Inductor, Unshielded Drum Core, Ferrite, 1mH, 0.25A, 4.38 ohm, TH	D6 x 8.5mm	7447462102	Wurth Elektronik eiSos		
L2	1	470uH	Inductor, Unshielded Drum Core, Ferrite, 470uH, , TH	D6 x 8.5mm	744772471	Wurth Elektronik eiSos		
L4	1	10000uH	Coupled inductor, 10000uH, 0.25A, 3.5 ohm, TH	Coupled inductor, 17.5x17x11mm	UU9.8V-103LF	GCI Technologies		
L, TP1	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
N, TP2	2	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone	Equivalent	Any
R1	1	24.3k	RES, 24.3k ohm, 1%, 0.1W, 0603	0603	CRCW060324K3FKEA	Vishay-Dale		
R2	1	100k	RES, 100k ohm, 5%, 0.25W, 1206	1206	CRCW1206100KJNEA	Vishay-Dale		
R4	1	19.1k	RES, 19.1k ohm, 1%, 0.1W, 0603	0603	CRCW060319K1FKEA	Vishay-Dale		
R5	1	5.1k	RES, 5.1k ohm, 5%, 0.25W, 1206	1206	CRCW12065K10JNEA	Vishay-Dale		
RF1	1	4.7	RES, 4.7 ohm, 5%, 1W, Fusible, TH	Axial resistor	FKN1WSJR-52-4R7	Yageo America		
RT1	1	10 ohm	Thermistor NTC, 10 ohm, 20%, Disc, 11.5mmx6mm	Disc, 11.5mmx6mm	B57236S0100M000	EPCOS Inc		
RV1	1		Varistor 275V RMS 10MM Radial, TH	10mm Radial	S10K275E2	EPCOS Inc		
U1	1		LOW STAND-BY POWER, CV / CC PWM HV SWITCHER WITH PRIMARY SIDE REGULATION, D0007A	D0007A	UCC28910D	Texas Instruments		None
R3	0	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale		

Notes:

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

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