

24V Regulator Demo Board - Populated Parts

Qty.	Refdes.	Description	Manufacturer	Manufacturer PN	Digikey PN	Unit Price	Extended Price
1	C2	270p capacitor, ceramic, 50V 10%, X7R, 0603	Samsung	CL10B271KB8NNNC	1276-2019-1-ND	\$0.10	\$0.10
1	C8	0.1u capacitor, ceramic, 50V 10%, X7R, 0603	Samsung	CL10B104KB8NNNL	1276-CL10B104KB8NNNLCT-ND	\$0.10	\$0.10
3	C4, C7, C13	10u capacitor, ceramic, 50V 20%, X5R, 1206	Samsung	CL31A106MBHNNNE	1276-6736-1-ND	\$0.30	\$0.90
2	C10, C11	1u capacitor, ceramic, 50V 20%, X5R, 1206	Samsung	CL31A106MBHNNNE	1276-6736-1-ND	\$0.30	\$0.60
1	C16	0.22u capacitor, ceramic, 50V 10%, X5R, 0603	Samsung	CL10A224KB8NNNC	1276-1876-1-ND	\$0.18	\$0.18
1	D1	schottky diode, Vf=0.62V, 30V 500mA, SOD-323	ON Semi	NSR0530HT1G	NSR0530HT1GOSCT-ND	\$0.16	\$0.16
2	D2, D3	green led, Vf=2V, 0603	Würth	150060VS75000	732-4980-1-ND	\$0.16	\$0.32
2	D4, D5	blue led, Vf=3.2V, 0603	Würth	150060BS75000	732-4966-1-ND	\$0.16	\$0.32
1	J1	2 pin header, 0.1", vertical, through hole	Sullins	PREC002SAAN-RC	S1012EC-02-ND	\$0.16	\$0.16
1	J2	3 pin header, 0.1", vertical, through hole	Sullins	PREC003SAAN-RC	S1012EC-03-ND	\$0.16	\$0.16
2	L1, L2	15uH inductor, 3.5A rated, 4.4A saturation, shielded, smd	Murata	DD1217AS-H-150M=P3	490-13203-1-ND	\$0.16	\$0.32
1	R5	340K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603340KFKEA	541-340KHCT-ND	\$0.10	\$0.10
1	R6	3.09M resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW06033M09FKEA	541-3.09MHCT-ND	\$0.10	\$0.10
1	R7	107K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603107KFKEA	541-107KHCT-ND	\$0.10	\$0.10
3	R8, R12, R13	10K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW060310K0FKEA	541-10.0KHCT-ND	\$0.10	\$0.30
1	R9	102K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW0603102KFKEA	541-102KHCT-ND	\$0.10	\$0.10
1	R10	3.16M resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW06033M16FKEA	541-3.16MHCT-ND	\$0.10	\$0.10
1	R11	5.36K resistor, 1%, 1/10W, 0603	Vishay Dale	CRCW06035K36FKEA	541-5.36KHCT-ND	\$0.10	\$0.10
1	TP15	multipurpose test point loop	Keystone	5011	36-5011-ND	\$0.35	\$0.35
1	U1	switching regulator, pos & neg output, 2.5-15V input, 20-TSSOP	Analog Devices	ADP5070AREZ	ADP5070AREZ-R7CT-ND	\$6.10	\$6.10
						BOM Total	\$10.67

24V Regulator Demo Board - Depopulated Parts

Qty.	Refdes.	Description	Manufacturer	Manufacturer PN	Digikey PN	Unit Price	Extended Price
5	C1, C5, C9, C14, C15	extra capacitor footprint, ceramic, 0603					
3	C3, C6, C12	extra capacitor footprint, ceramic, 1206					
4	R1, R2, R3, R4	extra resistor footprint, 0603					
						BOM Total	\$0.00