

VFET Supplemental Parts Kit for Printed Circuit Board (PCB)

Does not include VFETS, or insulators & hardware for VFETs & large MOSFETs, (MOSFETs are included) PCBs, or Brackets and Bolts for mounting PCBs to heatsinks

For these and additional items get the VFET Essentials Parts Kit also

KIT PART #	# per kit	Kit Part Description	Vendor	Vendor Part Number	Vendor Description	Manufacturer	Manufac. Part #	Minimum Order \$ Ea. Digi-Key	Minimum Order \$/Kit Digi-Key
Q3	2	Transistor	DigiKey	ZTX450-ND	TRANSIS. NPN 45V 1000MA TO92-3	DIODES INC.	ZTX450	0.61	1.22
Q4	2	Transistor	DigiKey	ZTX550-ND	TRANSIS. PNP 45V 1A E-LINE	DIODES INC.	ZTX550	0.61	1.22
Q7	2	N ch MOSFET	DigiKey	IRFP240PBF-ND	MOSFET N-CH 200V 20A TO-247AC	VISHAY SILICONIX	IRFP240PBF	2.09	4.18
Q8	2	P ch MOSFET	DigiKey	IRFP9240PBF-ND	MOSFET P-CH 200V 20A TO-247AC	VISHAY SILICONIX	IRFP9240PBF	2.54	5.08
Q6	2	N Ch MOSFET	DigiKey	FQP3N30-ND	MOSFET N-CH 300V 1.95A TO-220F	Fairchild	FQP3N30	0.83	1.66
Q5	2	P Ch MOSFET	DigiKey	FQP3P20-ND	MOSFET P-CH 200V 2.8A TO-220	Fairchild	FQP3P20	0.85	1.7
Q11,12,13,14	8	Voltage Reference	DigiKey	296-1287-1-ND	Shunt Voltage Reference IC	Texas Inst.	TL431ACLPR	0.4	3.2
	4	Diode	DigiKey	1N4004FSCT-ND	Diode Standard 400V 1A	Fairchild	1N4004	0.17	0.68
R32	2	Resistor-0.10	DigiKey	PPC3W.10CT-ND	RES 0.1 OHM 3W 5% AXIAL	VISHAY BC	AC03000001007JAC00	0.62	1.24
R29,30	4	Resistor-10	DigiKey	CMF10.0HFCT-ND	RES 10.0 OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF5510R000FHCB	0.61	2.44
R5,6	4	Resistor-47.5	DigiKey	CMF47.5HFCT-ND	RES 47.5 OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF5547R500FHCB	0.61	2.44
R25,26,34,35	8	Resistor-221	DigiKey	CMF221HFCT-ND	RES 221 OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF55221R00FHCB	0.61	4.88
R4	2	Resistor-332	DigiKey	CMF332HFCT-ND	RES 332 OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF55332R00FHCB	0.61	1.22
R27,28	4	Resistor-1.00K	DigiKey	CMF1.00KHCT-ND	RES 1.00K OHM 1% 50PPM 1/2W	VISHAY DALE (VA)	CMF551K0000FHCB	0.48	1.92
R1,3,7,8,9,10,13,14,19,20	20	Resistor-2.21K	DigiKey	CMF2.21KHCT-ND	RES 2.21K OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF552k2100FHCB	0.61	12.2
R17,18	4	Resistor-4.75K	DigiKey	CMF4.75KHCT-ND	RES 4.75K OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF554K7500FHCB	0.61	2.44
R11,12,21,22,31	10	Resistor-10K	DigiKey	CMF10KHCT-ND	RES 10K OHM 1/2W .5% AXIAL	VISHAY DALE (VA)	CMF5510K000DHR6	0.72	7.2
R33	4	Resistor-22.1K	DigiKey	CMF22.1KHCT-ND	RES 22.1K OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF5522K100FHCB	0.61	2.44
R15,16	4	Resistor-41.2K	DigiKey	CMF41.2KHCT-ND	RES 41.2K OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF5541K200FHCB	0.61	2.44
R2,23,24	6	Resistor-47.5K	DigiKey	CMF47.5KHCT-ND	RES 47.5K OHM 1/2W 1% AXIAL	VISHAY DALE (VA)	CMF5547K500FHCB	0.61	3.66
C1,2,7,8	8	Capacitor 220uF	DigiKey	604-1066-ND	220uF 35V Silmic 2 Aluminum Capacitors	ELNA	RFS-35V221M6#5	1.33	10.64
C3,4,5,6	8	Capacitor 47uF	DigiKey	604-1064-ND	47uF 35V Silmic 2 Aluminum Capacitors	ELNA	RFS-35V470MH3#5	0.667	5.336
P1,P2	4	Trimmer Pot-5K	DigiKey	3386P-502LF-ND	TRIMMER 5K OHM 0.5W TH	BOURNS INC	3386P-1-502	1.6	6.4
P3,P4	4	Trimmer Pot- 500	DigiKey	3386P-501LF-ND	500 Ohm 0.5W, 1/2W PC Pins	BOURNS INC	3386P-1-501LF	1.6	6.4
LED	4	LED	DigiKey	C503B-BCN-CV0Z0461-ND	Blue 470nm LED Indication - 3.2V Radial	Cree	C503B-BCN-CV0Z0461	0.21	0.84
LED Bezel	2	LED Bezel	DigiKey	67-1332-ND	Holder LED Panel 5MM Black Nylon	LUMEX	SSH-LX5091	0.29	0.58
Heatsink	4	Aavid Heatsink	DigiKey	HS193-ND	HEATSINK TO-220 1.45" HIGH	Aavid	551002B00000G	0.64	2.56
Htsink Hardware	4	Htsink Hardware	DigiKey	4880MG-ND	Mounting Kit	Aavid	4880MG	2.24	8.96
Mica Insulator	4	Mica Insulator	DigiKey	56-77-11G-ND	Thermal Pad	Aavid	56-77-11G	0.18	0.72
	4	3x5 bags	Uline	S-1707	3x5 Reclosable bags	Uline	S-1707		
	2	3x5 anti stat Bag	Uline	S-2506	3x5 Reclosable Static Sheilding Bags	Uline	S-2506		
	1	Mailer 7x4x1	Uline	S-16524	Indestructo Mailer	Uline	S-16524		
Q1,2	1	2 Matched prs.JFETs diyAudio	LSJFET1		2 Matched Pairs JFETs: J74B, LSK170B	LINEAR Systems	TOTAL: From Digi-Key		105.90
							Total for JFETs		49.00
							TOTAL if not ordered in kit		154.90