

Bill Of Materials (Aleph J UMS PCB) Draft

Part			Manufacturer		Supplier	
Designation	Description	Value	Name	Part Number	Mouser	Digikey
Capacitors						
C1		1uF				
C2	Electrolytic Capacitor	220uF				
C3	Electrolytic Capacitor	220uF				
C4	Electrolytic Capacitor	10uF				
C5		5pF				
C6						
Diodes						
D1	Zener Diode	9V1				
Jumpers						
J1						
J2						
LEDs						
LED1						
LED2						
LED3						
Transistors						
Q1A, Q1B	Small Signal P-Channel JFET	2SJ74	Toshiba	2SJ74-BL		
Q2	Small Signal PNP BJT	ZTX550	Zetex	ZTX550	522-ZTX550	
		BC560C	Fairchild	BC560CTA	512-BC560CTA	
Q3, Q4	Small Signal NPN BJT	ZTX450	Zetex	ZTX450	522-ZTX450	
		BC550C	Fairchild	BC550CTA	512-BC550CTA	

Q5, Q6, Q7, Q8	N-Channel MOSFET	IRFP240	Vishay	IRFP240PBF	844-IRFP240PBF	
Resistors						
R1, R3	0.25W Resistor	22K1	Vishay Dale	RN60D2212FB14	71-RN60D-F-22.1K	
				CMF5522K100FKEK	71-CMF5522K100FKEK	
R2, R4	0.25W Resistor	221K	Vishay Dale	RN60D2213FB14	71-RN60D-F-221K	
				CMF55221K00FHEK	71-CMF55221K00FHEK	
R5	0.25W Resistor	4K75	Vishay Dale	RN60D4751FB14	71-RN60D-F-4.75K	
				CMF554K7500FHEB	71-CMF554K7500FHEB	
R6	0.25W Resistor	562R	Vishay Dale	RN60D5620FB14	71-RN60D-F-562	
				CMF55562R00FHEK	71-CMF55562R00FHEK	
R7	Multi-Trimmer Potentiometer (See Note 1)	2K	Bourns			
R8	Multi-Trimmer Potentiometer (See Note 1)	500R	Bourns			
R9, R10, R11, R12, R13	0.25W Resistor	221R	Vishay Dale	RN60D2210FB14	71-RN60D-F-221	1135-1586-MIL
				CMF55221R00FHEK	CMF55221R00FHEK	CMF221HA-ND
R14	0.25W Resistor	392R	Vishay Dale	RN60D3920FB14	71-RN60D-F-392	
				CMF55221R00FKEB	71-CMF55221R00FKEB	
R15	0.25W Resistor	1K	Vishay Dale	RN60D1001FB14	71-RN60D-F-1.0K	
				CMF551K0000FHEK	71-CMF551K0000FHEK	
R16, R17, R18, R19, R20, R21, R22, R23	3W Resistor	R47	Panasonic	ERX-3FJR47	667-ERX-3FJR47	
			Vishay Dale	CPF3R47000JNB14	71-CPF3.475%T00	
R24	0.25W Resistor	1K2	Vishay Dale	RN60D1201FB14	71-RN60D-F-1.2K	
				CMF551K2000FKR6	71-CMF551K2000FKR6	
R25	0.25W Resistor	1K5	Vishay Dale	RN60D1501FB14	71-RN60D-F-1.5K	

				CMF551K5000FHEK	71-CMF551K5000FHEK	
R26	0.25W Resistor	3K32	Vishay Dale	RN60D3321FB14	71-RN60D-F-3.32K	
				CMF553K3200FKEB	71-CMF553K3200FKEB	
R27	Multi-Trimmer Potentiometer (See Note 1)	100K	Bourns			
R28	0.25W Resistor					
R29	0.25W Resistor					
R30	0.25W Resistor					

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