Bill of Materials
for
LME49830 EF125WT1 Reference Design

6/19/2008

Assembly Notes:

- No special considerations.

Reference	Value	Tolerance	Type/Description	Manufacturer	Part Number
C_{S1}, C_{S2}, C_{S3}, C_{S4}, C_{S10}, C_{S11}, C_{S9}, C_{SN1}	0.1µF	10%	250V, metalized polyester film, 7.5mm lead spacing	Panasonic	ECQ-E2104KF
C_{S7}, C_{S8}	470µF	20%	100V, radial electrolytic, 7.5mm lead spacing	Panasonic	EEU-FC2A471
C_{C1}	20pF	5%	500V multilayer mica, 3.6mm lead spacing	CDE Cornell Dubilier	CD15ED200J03
C_{B1}	30pF	5%	500V multilayer mica, 3.6mm lead spacing	CDE Cornell Dubilier	CD15ED300J03
C_{B2}, C_M	47µF	20%	16V, radial electrolytic, 2mm lead spacing	Panasonic	EEU-FC1C470
C_{I1}	220µF	20%	35V radial electrolytic, 3.5mm lead spacing	Panasonic	EEU-FC1V221L
C_T	180pF	10%	Polyester film, 5mm lead spacing	Panasonic	ECQ-B1H181KF
C_{C2}, C_{I2}, C_{I3}			Not Used		
D_1	12V	5%	500mW Zener Diode, DO-35	Fairchild Semiconductor	1N5242BTR
D_{G1}, D_{G2}, D_{G3}, D_{G4}, D_{G5}, D_{G6}, D_{G7}, D_{G8}	10V	5%	1W Zener diode, DO-41	Fairchild Semiconductor	1N4740A
U_1	200V		Complementary MOSFET power amplifier input stage	National Semiconductor	LME49830TB
Q_{VBE1}	80V 1.5A		NPN transistor, TO-126	Fairchild Semiconductor	BD13916STU
Q_1, Q_3	200V 12A		N-Channel MOSFET, 150W, TO-3PL (2-21F1B)	Toshiba	2SK1530-YF
Q_2, Q_4	200V 12A		P-Channel MOSFET, 150W, TO-3PL (2-21F1B)	Toshiba	2SJ201-YF
R_{SN1}	10Ω	5%	3 Watt metail oxide, axial through hole	Vishay/BCcomponents	NFR0300001009JAC00
R_{G1}, R_{G3}	22.1Ω	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-22R1

R_{G2}, R_{G4}	10.0Ω	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-10R0
R_{E1}, R_{E2}, R_{E3}, R_{E4}	0.1Ω	1%	5 Watt silicone wirewound, through hole	Vishay/Dale	RS005R1000FS73
R_{C2}	0Ω	5%	¼ Watt metail film, SMT 1206 (3216)	Panasonic	ERJ-S080R00V
R_{B1}	392Ω	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-392R
R_{B2}	750Ω	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-750R
R_{B3}	1.10kΩ	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-1K10
R_{P1}	200Ω	25%	0.2 Watt single turn potentiometer, through hole	Bourns Inc.	3306W-1-201
R_{IN}, R_I	249Ω	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-249R
R_T, R_{F1}	6.81kΩ	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-6K81
R_{M1}	75.0kΩ	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-75K0
R_{M2}	20.0kΩ	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-20K0
R_{Z1}	39.2kΩ	1%	¼ Watt metal film, axial through hole	International Yageo Corp.	MFR-25FBF-39K2
R_{BO1}, R_{BO2}, R_{C1}			Not Used		
S_1	20V		SPDT On-On right angle, through hole	C & K Components	ET01MD1ABE
J_1			3 pin 156mil header, straight, tin plating	Molex/Waldom Electronics Corp.	26-60-4030
J_3			2 pin 156mil header, straight, tin plating	Molex/Waldom Electronics Corp.	26-60-4020
J_4			RCA phono jack, PCB mount, black	Kobiconn	161-0097-E
J_2, J_9, J_{10}, J_{12}			2 pin 100mil header, straight, tin plating	Molex/Waldom Electronics Corp.	22-23-2021
J_{11}			3 pin 100mil header, straight, tin plating	Molex/Waldom Electronics Corp.	22-03-2031
	6.3ºC/W		LME49830 heat sink	Aavid Thermalloy	530101B00150
	0.62ºC/W		Output stage heat sink, 4 inch length	Aavid Thermalloy	65605