



Bill of Materials for the MT9M114EBLSTCZH3-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C30 C37 C41 C42 C43 C46 C49 C53 C54 C66 C67 C68 C69	14	CAP, CERAMIC, 100nF, 16V, X5R, 10%, 0402	100nF	10%	402	Panasonic	ECQ0E1C104K	Yes	Yes
C2 C7 C10 C12 C13 C20	6	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%, 3216	10uF	10%	3216-18	AVX	TPSA106K010R0900	Yes	Yes
C3 C4 C5 C6 C8 C9 C22 C23 C24 C25	18	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	201	Panasonic	ECJ2EB1A104M	Yes	Yes
C31	1	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%	10uF	-	3216-18	AVX	TAJA106K010R	Yes	Yes
C32 C33 C34	3	CAP, CERAMIC, 220nF, 16V, X7R, 10%, 0805	220nF	10%	805	Panasonic	ECJ2V81C224K	Yes	Yes
D1	1	CAP, CERAMIC, 1uF, 10V, X7R, 10%, 0805	1uF	10%	805	Panasonic	ECJ2V81A105K	Yes	Yes
J1	1	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	GRN	-	603	Lite-On	LTST-C190KGKT	Yes	Yes
L1	1	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS,	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS,	-	-	Samtec	QFS-026-04-25-L-D-A-RT1	Yes	Yes
L2	1	0.635MM PITCH, ALIGNMENT PINS, 1 GND, BUS PIN, LIGHT GOLD PLTG, RETENTION ENCS	CON52-2x26-J (QFS)	-	-	Samtec	QFS-026-04-25-L-D-A-RT1	Yes	Yes
L3	1	IND, FERRITE CHIP, 220 OHM AT 100MHZ, 0.1 OHM DC, 0603	1.4A	-	603	Murata	BLM18PC2215M1D	Yes	Yes
L4	1	IND, CHIP COIL, SMD, 10uH, 225mA, +/- 10%, 0806	10uH	-	806	Murata	LQH2MCM100K02L	Yes	Yes
P1 P2 P5 P6 P7	5	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P	-	-	3M	951103-8622-AR	Yes	Yes
P3	1	CONN, HEADER, VERTICAL, 2x10, 20 PIN, .100 PITCH, 25 MIL SQ POSTS	HDR20-2x10-P (TSW)	-	-	Samtec	TSW-110-07-G-D	Yes	Yes
P4 P8	2	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P	-	-	3M	951102-8622-AR	Yes	Yes
P9	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, .100 PITCH, 25 MIL SQ POSTS	HDR4-1x4-P (TSW)	-	-	Samtec	TSW-104-07-G-S	Yes	Yes
P11	1	CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-2x2-P	-	-	3M	951204-8622-AR	Yes	Yes
P12 P13	2	CONN, HEADER, SPROCKETED, VERTICAL, 2x5, 10 PIN, 2.0MM PITCH, CENTER POLARIZATION SLOT, THRU-HOLE	HDR10-2x5-P	-	-	Molex	87831-1020	Yes	Yes
P15	1	CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	HDR6-2x3-P	-	-	3M	951206-8622-AR	Yes	Yes
P32	1	CONN, HEADER, VERTICAL, 2x5, 10 PIN, .100 PITCH, 25 MIL SQ POSTS	HDR10-2x5-P (TSW)	-	-	Samtec	TSW-105-07-G-D	Yes	Yes
R1 R4 R5 R13 R14 R19 R21 R22 R38 R39 R60 R61 R62 R63 R3 R7 R18	14	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	402	Panasonic	ERJ2GE109X	Yes	Yes
R6	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	560	5%	402	Panasonic	ERJ2GE561X	Yes	Yes
R8	1	RESISTOR, THICK FILM CHIP, SMD, 4.7K, 0.063W, 5%, 0402	4.7K	5%	402	Panasonic	ERJ2GE472X	Yes	Yes
R9 R10 R11 R12	4	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.1W, 5%, 0603	0	5%	603	Panasonic	ERJ3GEY0R00V	Yes	Yes
R27	1	RESISTOR, THICK FILM CHIP, SMD, 100K, 0.063W, 5%, 0402	100K	5%	402	Panasonic	ERJ2GE104X	Yes	Yes
R29 R33 R34	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	402	Panasonic	ERJ2GE330X	Yes	Yes
SW1	1	SWITCH, PUSH BUTTON, SEALED TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 12VDC, SMD	PB-SPST	-	-	C&K Components	PT5635S125SMTRLF5	Yes	Yes
SW3	1	IC, ANALOG SWITCH, DUAL SPDT, 600 mOHM, VOLTAGE SUPPLY 1.65V TO 3.6V, CURRENT SUPPLY 15mA, MSOP10	TS3A24157D6SR	-	MSOP10	Texas Instruments	TS3A24157D6SR	Yes	Yes
TP1 TP2	2	CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	TS1PT-5016	-	-	Keystone Electronics	5016	Yes	Yes
U1	1	IC, SENSOR, ACTIVE PIXEL DIGITAL IMAGE, CMOS, K248 DEMO HBDD, MT9M114 (ASOC)M01SP, FBGA55	MT9M114-CSP-K248-DEMO	-	FBGA55	ON Semiconductor	MT9M114 (ASOC)M0140	No	Yes
U2	1	IC, RS232 TRANSCEIVER, TXRX, 1.8V TO 5.5V, 0°C TO 70°C, DFN12	LTC2801	-	DFN12	Linear Technology	LTC2801CDE#PBF	Yes	Yes
U3	1	IC, SERIAL EEPROM, I2C, 64KB, 2.5V, 1MHz, -40°C - 85°C, S08	24FC64-IJ5N	-	S08	Microchip	24FC64-IJ5N	Yes	Yes
U5	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SOT143-4	CAT811	-	SOT143-4	ON Semiconductor	CAT811STB1	No	Yes
U6 U7	2	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, 1.6V TO 5.5V, SOT23-5	SN74LVC1G08	-	SOT23-5	Texas Instruments	SN74LVC1G08DBVR	Yes	Yes
U9	1	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 32mA, 1.6V TO 5.5V, SOT23-5	SN74LVC1G17	-	SOT23-5	Texas Instruments	SN74LVC1G17DBVR	Yes	Yes
U11	1	OSC, CRYSTAL CLOCK, SMD, 3.3V, 24.000MHz, +/- 50ppm	24MHz	-	-	ECS Inc.	ECS-2033-240-BN	Yes	Yes
U12 U13	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 9mA, 0.8V TO 2.7V, SOT23-5	SN74AUC1G17	-	SOT23-5	Texas Instruments	SN74AUC1G17DBVR	Yes	Yes
U17	1	IC, LEVEL TRANSLATOR, DUAL, LOW VOLTAGE, 8MBPS, 1.65V TO 5.5V, SOT23-8	MAX3373E	-	SOT23-8	Maxim	MAX3373EKA+T	Yes	Yes