



Bill of Materials for the MT9V128IA3XTCH3-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C31 C32	2	CAP, CERAMIC, 330pF, 2.0V, X7R, 10%, 0402	330pF	10%	402	Panasonic	ECJ2B1E333K	Yes	Yes
C45 C46 C50 C51 C52	5	CAP, CERAMIC, 100nF, 16V, X7R, 10%, 0603	100nF	10%	402	Murata	GRM155R71E104M48D	Yes	Yes
C47 C49	2	CAP, CERAMIC, 100pF, 50V, C0G, 0805, 5%	100pF	5%	402	Panasonic	ECQ013C100	Yes	Yes
C43 C53 C57 C59	14	CAP, TANTALUM CHIP, 10uF, 10V, 10%	10uF	-	3216-18	AVX	TVA1060050E	Yes	Yes
C54 C56 C58 C59 C74 C77 C80 C81 C84 C85 C90 C91 C92	17	CAP, CERAMIC, 100nF, 16V, X5R, 20%, 0201	100nF	20%	201	Panasonic	ECJ2E1A104M	Yes	Yes
C62	1	CAP, CERAMIC, 100nF, 16V, X5R, 10%, 0402	100nF	10%	402	Panasonic	ECJ0E81C104K	Yes	Yes
C64	1	CAP, CERAMIC, 1uF, 16V, X7R, 10%, 0603, Multilayer BIC-DIP	1uF	10%	603	TDK Corporation	CGA3E1X7R1C106K80AC	Yes	Yes
C65 C73 C78 C83 C87 C89	6	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%	10uF	10%	3216-18	AVX	TPSA106K010R0900	Yes	Yes
C66	1	CAP, CERAMIC, 1uF, 25V, X7R, 10%, 0805	1uF	10%	805	Murata	GCM218R71E105K456L	Yes	Yes
C70 C71 C72 C75 C76 C79 C82 C86 C88 C93 C94 C95	12	CAP, CERAMIC, 10uF, 10V, X7R, 10%, 0201	10uF	10%	201	Murata	GRM033R71A100KA01D	Yes	Yes
D3	1	DIODE, LED, CHIP, GEN, CLEAR LENS, 2.0V, 2-PIN, SMD, 0603	GRN	-	603	Lite-On	LTST-C190KGT	Yes	Yes
J1	1	CONN, JACK, PHONO (RCA), RIGHT ANGLE, YELLOW, 2 PINS, THROUGH-HOLE	CONN1 JACK-YEL-RA-J	-	-	C&H Inc.	RCJ-044	Yes	Yes
J2	1	0.635MM PITCH, ALUMINUM FIN, 1 GND BUS PIN, LIGHT GOLD P.L.T.G. RETENTION BAK	CON52 2x26-J (DF5)	-	-	Samtec	QFS-026-04.25-L-D-A-RT1	Yes	Yes
L3 L3	2	IND, CHIP COIL, LASER CUT, 1.0uH, +/- 5%, 1008	1.0uH	-	1008	Panasonic	ELFPC808F	Yes	Yes
L2	1	IND, CHIP COIL, LASER CUT, 2.2uH, +/- 5%, 1008	2.2uH	-	1008	Panasonic	ELFPC202F	Yes	Yes
L8	1	IND, FERRITE CHIP, 220 OHM AT 100MHz, 0.1 OHM DC, 0603	1.4A	-	603	Murata	BLM18PG1215N1D	Yes	Yes
P20 P21 P25 P29	4	CONN, HEADER, VERTICAL, 3x3, 3 PIN, 2MM PITCH, THROUGH-HOLE	HDR3 3x3-P	-	-	3M	951103-8622-AR	Yes	Yes
P22 P30	2	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THROUGH-HOLE	HDR2 1x2-P	-	-	3M	951102-8622-AR	Yes	Yes
P23 P28	2	CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THROUGH-HOLE	HDR4 2x2-P	-	-	3M	951204-8622-AR	Yes	Yes
P24 P27	2	CONN, HEADER, VERTICAL, 2x4, 8 PIN, .100 PITCH, 25 MIL SO DICKY	HDR8 2x4-P	-	-	Tyco Electronics	87227-4	Yes	Yes
P26	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THROUGH-HOLE	HDR4 1x4-P	-	-	3M	951104-8622-AR	Yes	Yes
R91 R92	2	RESISTOR, CHIP ARRAY, ISOLATED, 4 RES, 8 TERMINALS, 22 OHM, 0.063W, 5%, 0402	22	5%	0402 X 4	Panasonic	ERX82V2201X	Yes	Yes
R97 R98	2	RESISTOR, CHIP ARRAY, ISOLATED, 4 RES, 8 TERMINALS, 4.7K OHM, 0.063W, 5%, 0402	4.7K	5%	0402 X 4	Panasonic	ERX82V4721X	Yes	Yes
R7 R20 R21 R25 R55 R72	6	RESISTOR, THICK FILM CHIP, SMD, 0 OHM, 0.063W, 5%, 0603	0	5%	402	Panasonic	ERJ2G0R00X	Yes	Yes
R9	1	RESISTOR, PRECISION THICK FILM CHIP, SMD, 2.4K, 0.1W, .1%, 0402	2.4K	1%	402	Panasonic	ERJ2RKF2401X	Yes	Yes
R18	1	RESISTOR, PRECISION THICK FILM CHIP, SMD, .75 OHM, .1W, 1%, 0402	.75	1%	402	Panasonic	ERJ2RKF7500X	Yes	Yes
R19	1	RESISTOR, PRECISION THICK FILM CHIP, SMD, .39 OHM, .1W, 1%, 0402	.39	1%	402	Panasonic	ERJ2RKF3900X	Yes	Yes
R62 R63 R78	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, .1W, .1%, 0603	33	5%	402	Panasonic	ERJ2GEJ330X	Yes	Yes
R64 R69 R70 R75 R76	5	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, .1%, 0402	10K	5%	402	Panasonic	ERJ2GE100X	Yes	Yes
R73 R74 R106 R107 R108	5	RESISTOR, THICK FILM CHIP, SMD, 22 OHM, 0.1W, .1%, 0603	22	5%	402	Panasonic	ERJ2GEJ220X	Yes	Yes
R77	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, .5%, 0402	560	5%	402	Panasonic	ERJ2GEJ561X	Yes	Yes
R79 R99 R101 R109 R109	5	RESISTOR, THICK FILM CHIP, SMD, 4.7K, 0.063W, .5%, 0602	4.7K	5%	402	Panasonic	ERJ2GEJ472X	Yes	Yes
R80 R81 R82 R83 R84 R85 R86 R87 R88 R100 R102 R104	12	RESISTOR, THICK FILM CHIP, SMD, 100K, 0.063W, .5%, 0402	100K	5%	402	Panasonic	ERJ2GE104X	Yes	Yes
SW1	1	SWITCH, PUSH BUTTON, TACTILE, MOM, 2 PIN, SPST, NO. CONTACT, 0.05A, 50MA	P8-SPST	-	-	TE Connectivity	147873-2	Yes	Yes
SW2 SW3	2	SWITCH, DIP, SLIDE, SPST, 4 POS, HALF PITCH, SMD, 1.6x0.8	Slide-SPST	-	-	Copal Electronics	CHS-04TA	Yes	Yes
TP7 TP8	2	CONN, TERMINAL, TEST POINT, COMPACT, THICK SMT	TSTPT-5036	-	-	Keystone Electronics	5036	Yes	Yes
U1	1	IC, SENSOR, ACTIVE PIXEL DIGITAL IMAGE, CMOS, 4228 DEMO HDSD, MT9V128, 864x 864	MT9V128_DEMO3_864x864	-	864x864	ON Semiconductor	MT9V128IA3XTCH3_BGA63	No	Yes
UB UR	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 1.65V TO 5.5V, SOT23-5	SN74VLC1G517	-	SOT23-5	Texas Instruments	SN74VLC1G108VR	Yes	Yes
U10	1	IC, AND-GATE, SINGLE, 2 INPUT POSITIVE, 1.8V TO 5.5V, SOT23-5	SN74ALP1G08	-	SOT23-5	Texas Instruments	SN74ALP1G08DCKR	Yes	Yes
U11	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SOT14-4	CAT811	-	SOT143-4	ON Semiconductor	CAT811ST81	No	Yes
U12	1	IC, SERIAL EEPROM, I2C, 96BIT, 2.5V, 1MHz, 40°C	24FC64-1/3N	-	S08	Microchip	24FC64-15N	Yes	Yes
U14	1	IC, FLASH MEMORY, 8MBIT, 70MHz, 2.7V TO 3.6V, S08	AT29D081A	-	S08	Atmel	AT29D081A-SSU	Yes	Yes
Y1	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 2.29V TO 3.6V, 4MHz, 27.0000MHz, 2.5MM x 2.0MM	27MHz	-	-	Kyocera	KC3520B27.0000C2GE00	Yes	Yes
Y2	1	OSC, CRYSTAL, SMD, 20PF, 27MHz, STABILITY ± 100 ppm, 55°C ~ 125°C, 3.2 x 2.5 x 0.7 MM	27MHz	-	-	ECS Inc.	ICS-270-20-33-DU-TR	Yes	Yes