

IXM BOM



Part Reference	Description	Manufacturer Part No.
R21	RES 1.0K OHM 1/10W 5% SMD	ERJ-2GEJ102X
R17, R11, R60, R66, R1, R2, R40, R46, R48, R93, R37, R31, R33, R84, R27, R7, R9, R75, R99, R90, R81, R13, R110, R121, R122, R123, R124, R125, R126, R127	RES 4.7K OHM 1/10W 5% SMD	ERJ-2GEJ472X
R101, R55, R20, R72, R73, R98, R89, R80, R25, R19, R97, R88, R79, R23, R24, R62, R45, R6, R30, R59	RES 10.0K OHM 1/10W 1% SMD	ERJ-2GEJ103X
R53, R51, R94, R95, R85, R86, R76, R77	RES ZERO OHM 1/10W 5% 0402 SMD	ERJ-2GE0R00X
R22, R71, R42, R18, R3	RESISTOR .050 OHM 1/10W 1%	ERJ-L03KF50MV
R61, R47, R32, R8	RES 332K OHM 1/16W .5% SMD	ERJ-2RKF3323X
R63	RES 41.2K OHM 1/16W 1% 0402 SMD	ERJ-2RKF4122X
R5, R54, R96, R87, R78	RES 90K OHM 1/10W 1% SMD	RC0402FR-0790K9L
R56, R57, R68	RES 20K OHM 1/10W 1% SMD	ERJ-2RKF2002X
R58	RES 100K OHM 1/10W 1% SMD	ERJ-2RKF1003X
R65	RES 698K OHM 1/10W 1% SMD	ERJ-2RKF6983X
R69	RES 60.4K OHM 1/16W 1% 0402 SMD	RC0402FR-0760K4L
R70	RES 11.3K OHM 1/10W 1% SMD	ERJ-2RKF1132X
R26, R29, R36, R50	RES 2.32K OHM 1/16W 1% 0402 SMD	ERJ-2RKF2321X
R12, R67, R64, R16, R39, R41, R49, R92, R35, R38, R34, R83, R15, R28, R14, R74	RES 20K OHM 1/10W 5% SMD	ERJ-2GEJ203X
R52	RES ARRAY 680OHM 16TRM 8RES SMD	MNR18E0APJ681
R82, R116, R117, R118, R119, R43, R111, R112, R113, R114, R10, R105, R106, R107, R108, R91, R100, R102, R103, R104, R44, R120, R115, R109	RES 1.0K OHM 1/20W 5% 0201 SMD	ERJ-1GEJ102C
C47	CAP CER 10UF 16V Y5V 0805	GRM21BF51C106ZE15L
C37, C44, C32, C25, C6, C49	CAP CER 1.0UF 35V X5R 0603	GMK107BJ105KA-T
C22, C41, C35, C55, C11, C12, C13, C14, C15, C16, C17, C18, C8, C23, C57, C58, C56, C54, C39, C3	CAP .1UF 16V CERAMIC X7R 0402	ECJ-0EF1C104Z
C40, C48, C34, C27, C10, C45	CAP .1UF 50V CERAMIC Y5V 0603	ECJ-1VF1H104Z
C29, C5, C52, C53, C50, C51, C30, C43	CAP 1000PF 50V CERAMIC X7R 0402	ECJ-0EB1H102K
C46	CAP 68PF 50V CERAMIC 0402 SMD	ECJ-0EC1H680J
C42, C1	CAP 22PF 50V CERAMIC 0402 SMD	ECJ-0EC1H220J
C19, C20	CAP 18PF 50V CERAMIC 0402 SMD	ECJ-0EC1H180J
C38, C36, C9, C28, C31, C33, C21, C24, C26, C2, C4, C7	CAP .01UF 50V CERAMIC Y5V 0402	ECJ-0EF1H103Z
D22	1.6x1.6mm FULL-COLOR SURFACE MOUNT LED	APTF1616PBASURKCGKC
D2, D3, D4, D1	LED 0402 BLUE 465NM TRANSPARENT	SMLP12BC7TT86
D29, D30, D31, D32, D27, D26, D33, D35	SMD LED Lamps White, Water Clear 3.5V, 150mcd	LTW-170TK
D8, D5, D15, D23, D7, D19, D11, D16	DIODE SCHOTTKY 25V 0.7A SOT-323	RB461FT106
D9, D6, D21, D24, D18, D20, D14, D17	DIODE SCHOTTKY 25V 0.7A SOT-323	RB461FT106
D10, D13	DIODE SCHOTTKY 40V 1A POWERMITE	MBRM140T1G
D12	DIODE SWITCH 100V 150MW SOD-523	1N4148X-TP
U4, D25, D41, D34, D28	DIODE ZENER 200MW 3.3V SOD-523F	MM5Z3V3
U24	DIODE ZENER 150MW 16V SOD523	BZT52C16T-7
L2	INDUCTOR POWER 3.0UH 2.2A SMD	744052003
Q3, Q4, Q2, Q8, Q1, Q7, Q5, Q6	TRANS SS NPN 45V SOT-323	BC847BW-TP
U12, U36, U29, U10	TRANS PNP HV 100MA 300V SOT23	PMBTA92,215
U17, U15, U37, U39, U30, U32, U13, U26	MOSFET P-CH 30V 18A POWER33	FDMC4435BZ
U18, U16, U40, U31, U33, U25, U27	MOSFET P-CH 30V 18A POWER33	FDMC4435BZ
U38	MOSFET P-CH 30V 18A POWER33	FDMC4435BZ
Y1	CRYSTAL 12.000MHZ 18PF FUND SMD	ABM3B-12.000MHZ-B2-T
U22	IC ANALOG MUX/DEMUX 8-CH 16-VQFN	SN74LV4051ARGYR
U23	IC REG SW STP DWN 1.2A 8-DFN	LT3505EDD#PBF
U3	IC QUAD 2-IN AND GATE 14-DHVQFN	74HC08BQ,115
U43	IC COMPARATOR QUAD 0.8MA VQFN16	BA2901KN-E2
U5	IC SRL EEPROM 128K 1.8V 8DFN	25AA128-I/MF
U19, U9, U2, U1	OpAmps, AD8206	AD8206
U14	ARM, LPC2368	LPC2367FBD100-S
U6, U11, U20, U8	IC 6CH ESD-PROT ARRAY 8-QFN	TPD6E004RSER
U7	IC LDO REG 200MA 3.3V SOT-23-3	MCP1700T-3302E/TT
S8	TACT SPST W/O GND SMD Switch-2Pos	B3U-1000P
J9, J8, J7, J10, J2, J4, J5, J1	7POS .100 TIN rt angle fem surface mount	SMH-107-02-T-S