

Reference Designator	DESCRIPTION	VALUE	Qty	MFG	MFG_PN
C1, C3, C4, C5, C6, C12, C13, C14, C18, C19, C22, C23, C27, C30, C31, C37, C43, C46, C47, C53, C59, C62, C63, C69, C75, C78, C79, C85, C91, C94, C95, C101, C107, C110, C111, C117, C123, C126, C127, C133, C139, C142, C143, C149	CAP CER X7R	0.1uF	44	TDK	CGA2B3X7R1H104K050BB
C10	CAP CER X7R, GENERAL PURPOSE	1000PF	1	MURATA	GRM155R72A102KA01D
C36, C52, C68, C84, C100, C116, C132, C148	CAP CER X7R, GENERAL PURPOSE	0.01uF	8	MURATA	GRM155R71E103KA01D
C38, C39, C54, C55, C70, C71, C86, C87, C102, C103, C118, C119, C134, C135, C150, C151	CAP CER X7R, GENERAL PURPOSE	0.1uF	16	MURATA	GRM188R71H104KA93D
C40, C56, C72, C88, C104, C120, C136, C152	CAP MULTILAYER CER CHIP, X6S	3.3UF	8	TDK	C2012X6S1H335K125AC
C41, C57, C73, C89, C105, C121, C137, C153	CAP CER COG(NPO), GENERAL PURPOSE	220pF	8	MURATA	GRM1555C1H221JA01D
C42, C58, C74, C90, C106, C122, C138, C154	CAP CER X7R, SOFT TERMINATION	0.01F	8	TDK	C1608X7R1H103K080AE
C7, C8, C9, C28, C44, C60, C76, C92, C108, C124, C140	CAP CER X7S	4.7UF	11	AVX CORPORATION	12061Z475KAT2A
C2, C29, C33, C45, C49, C61, C65, C77, C81, C93, C97, C109, C113, C125, C129, C141, C145	CAP CER X7R, GENERAL PURPOSE	4.7UF	17	MURATA	GRM21BZ71H475KE15L
C11	CAP CER X7R	2.2uF	1	TAIYO YUDEN	UMK212BB7225KG-T
C32, C48, C64, C80, C96, C112, C128, C144	CAP CER X6S, GENERAL PURPOSE	4.7uF	8	MURATA	GRM188C81C475KE11D
C34, C50, C66, C82, C98, C114, C130, C146	CAP CER	22PF	8	PHYCOMP (YAGEO)	0402CG220J9B200
C35, C51, C67, C83, C99, C115, C131, C147	CAP MULTILAYER CER CHIP, X5R	1UF	8	TDK	C1005X5R1E105K050BC
C15, C17, C164, C166, C167	CAP CER X7R, HIGH DIELECTRIC	10UF	5	TAIYO YUDEN	EMK212BB7106MG-T
C16, C21, C165	CAP CER COG	8PF	3	AVX CORPORATION	0402YA8R0DAT2A
C20, C24	CAP CER COG	20PF	2	AVX CORPORATION	0402YA200JAT2A
C25, C26	CAP CER X7R	0.47uF	2	TDK	C1608X7R1H474MT
D1, D2	DIODE SCHOTTKY BARRIER RECT	SS2P3-M3/84A	2	VISHAY	SS2P3-M3/84A
D4, D7, D10, D13, D16, D19, D22, D25	DIODE SCHOTTKY SMALL SIGNAL	BAT54KFILM	8	STMICROELECTRONICS	BAT54KFILM
D5, D8, D11, D14, D17, D20, D23, D26	DIO TVS BIDIRECTIONAL	SMAJ33CA-TR	8	ST MICROELECTRONICS	SMAJ33CA-TR
D3, D6, D9, D12, D15, D18, D21, D24	DIODE SCHOTTKY RECTIFIER SMD	BAT46W-7-F	8	DIODES INCORPORATED	BAT46W-7-F
DS1, DS2	LED UNI-COLOR GREEN, 574NM	APHHS1005CGCK	2	KINGBRIGHT	APHHS1005CGCK
DS3, DS4, DS5, DS6, DS7, DS8, DS9, DS10	LED UNI-COLOR ORANGE, 610NM	APHHS1005SECK	8	KINGBRIGHT ELECTRONIC	APHHS1005SECK

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DS11, DS12, DS13, DS14, DS15, DS16, DS17, DS18	LED HYPER RED SMD	APHHS1005SURCK	8	KINGBRIGHT	APHHS1005SURCK
DS19	LED 0402 LOW CURRENT TYPE (BLUE)	SMLP12BC7TT86	1	ROHM	SMLP12BC7TT86
DS20	LED UNI-COLOR WHITE, 112MCD	VAOL-S4WR4	1	VISUAL COMMUNICATIONS COMP.	VAOL-S4WR4
JP1,JP2	RES JUMPER		0	PANASONIC	ERJ-3GEY0R00V
L1, L6, L7	IND SM	120NH	3	MURATA MANUFACTURING	BLM21BB750SN1B
L2, L3, L5, L8, L10, L11, L13, L14, L16, L17, L19, L20, L22, L23, L25, L26	IND SHIELDED POWER, 9.27OHM DCR, 0.17A	100UH	16	COILCRAFT INC.	XPL2010-104MLB
L4, L9, L12, L15, L18, L21, L24, L27	IND SHIELDED POWER	47UH	8	COILCRAFT INC.	LPS4018-473MRB
L28	IND POWER CHOKE	100uH	1	WURTH ELEKTRONIK GROUP	744043101
P1	CONN-PCB RCPT MINI USB2.0, SHELL SMT	UX60SC-MB-5ST	1	HIROSE ELECTRIC	UX60SC-MB-5ST
P7,P8,P9,P10,P11,P12,P13, P14	CONN-PCB HEADER RT 3.81MM	1803277	8	PHOENIX CONTACT	1803277
P15	CONN-PCB 8POS MALE HDR UNSHROUDED DUAL ROW ST, 1.27MM PITCH	20021121-00008C4LF	1	AMPHENOL FCI	20021121-00008C4LF
P2	CONN-PCB 0.025 SQ POST SOCKET RA	SSW-103-02-T-D-RA	1	SAMTEC	SSW-103-02-T-D-RA
P3,P4	CONN-PCB 2POS TERMINAL BLOCK HDR R/A, 3.81MM PITCH, 3.4MM SOLDER TAIL	5431181	2	PHOENIX CONTACT	5431181
P5,P6	CONN-PCB HDR SIL VERT, 2.54MM P	M20-8770246	2	HARWIN	M20-8770246
R1, R4, R6, R47, R64, R81, R98, R115, R132, R149, R166	RES PRECISION THICK FILM CHIP	1MEG	11	PANASONIC	ERJ-1GNF1004C
R10	RES PRECISION THICK FILM CHIP R0201	5.1K	1	PANASONIC	ERJ-1GNF5101C
R9, R24, R43, R49, R54, R66, R71, R83, R88, R100, R105, R117, R122, R134, R139, R151, R156, R168, R173	RES PRECISION THICK FILM CHIP	100K	19	PANASONIC	ERJ-1GNF1003C
R50, R67, R84, R101, R118, R135, R152, R169	RES PRECISION THICK FILM CHIP	38.3K	8	PANASONIC	ERJ-2RKF3832X
R51, R68, R85, R102, R119, R136, R153, R170	RES PRECISION THICK FILM CHIP	634K	8	PANASONIC	ERJ-1GNF6343C
R44, R53, R55, R61, R70, R72, R78, R87, R89, R95, R104, R106, R112, R121, R123, R129, R138, R140, R146, R155, R157, R163, R172, R174, R180	RES THICK FILM CHIP	100K	25	PANASONIC	ERJ-2GEJ104X
R56, R73, R90, R107, R124, R141, R158, R175	RES THIN FILM PRECISION	13.7K	8	TE CONNECTIVITY	RN73C1J13K7BTG
R57, R58, R74, R75, R91, R92, R108, R109, R125, R126, R142, R143, R159, R160, R176, R177	RES PRECISION THICK FILM CHIP	1K	16	PANASONIC	ERJ-2RKF1001X
R8, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R32, R41, R42	RES PRECISION THICK FILM CHIP	1K	17	PANASONIC	ERJ-1GNF1001C
R59, R76, R93, R110, R127, R144, R161, R178	RES ANTI-SURGE THICK FILM CHIP		10	8	PANASONIC ERJP06F10R0V

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R2, R45, R60, R62, R77, R79, R94, R96, R111, R113, R128, R130, R145, R147, R162, R164, R179	RES CHIP SMD 0201		0 17	PANASONIC	ERJ-1GE0R00C
R46, R63, R97, R114, R131, R148, R165	RES PRECISION THICK FILM CHIP	21K	7	PANASONIC	ERJ-1GNF2102C
R48, R65, R82, R99, R116, R133, R150, R167	RES FILM SMD 0402	33K	8	PANASONIC	ERJ-2GEJ333X
R181	RES FILM SMD 0402		330 1	PANASONIC	ERJ-2GEJ331X
R182	RES PRECISION THICK FILM CHIP	115K	1	PANASONIC	ERJ-2RKF1153X
R183	RES PRECISION THICK FILM CHIP	357K	1	PANASONIC	ERJ-2RKF3573X
R3, R25, R26, R27, R28, R29, R30, R31, R33, R34, R35, R36, R37, R38, R39, R40, R184, R185	RES PREC THICK FILM CHIP		100 18	PANASONIC	ERJ-1GNF1000C
R186, R187, R188, R189, R190, R191, R192, R193	RES CURRENT SENSE LOW VALUE		0.4 8	VENKEL	LCR0603-R400FT
R5	RES PRECISION THICK FILM CHIP		560 1	PANASONIC	ERJ-1GNF5600C
R7	RES PRECISION THICK FILM CHIP	21.5K	1	PANASONIC	ERJ-2RKF2152X
S1,S2	SW TACTILE, MICROMINIATURE TOP ACTUATED, SPST-NO	PTS830 GM140 SMTR LFS	2	C&K	PTS830 GM140 SMTR LFS
T1,T2,T3,T4,T5,T6,T7,T8	XFMR TURNS RATIO 1:1 280UH, 250MA PRELIM	750316743	8	WURTH ELEKTRONIK	750316743
U1	IC-ADI ULTRA LOW PWR ARM CORTEX-M3 MCU	ADUCM3029BCPZ	1	ANALOG DEVICES	ADUCM3029BCPZ
U5,U8,U10,U12,U14,U16,U18,U20	IC-ADI 1-CH, 16-BIT CURRENT/VOLTAGE OUTPUT DAC, DYNAMIC POWER CONTROL, HART CONNECTIVITY, PRELIM	AD5758BCPZ-REEL	8	ANALOG DEVICES	AD5758BCPZ-REEL
U4,U6,U9,U11,U13,U15,U17,U19	IC-ADI ISOLATED UPMU FOR INDUSTRIAL CH TO CH ISOLATED ANALOG OUTPUT, PRELIM	ADP1031	8	ANALOG DEVICES	ADP1031
U2	IC-TTL SINGLE POSITIVE AND GATE	SN74LVC1G08DCKR	1	TEXAS INSTRUMENTS	SN74LVC1G08DCKR
U3	IC-ADI HIGH EFFICIENCY BUCK REGULATOR	ADP2360ACPZ	1	ANALOG DEVICES	ADP2360ACPZ-R7
U7	IC USB SERIAL UART	FT232RQ	1	FTDI CHIP	FT232RQ
Y1	IC CRYSTAL TUNING FORK, 6PF LOAD CAP	32.768KHZ	1	ABRACON CORP.	ABS07-120-32.768KHZ-T
Y2	IC CRYSTAL, 10PF LOAD CAP	26MEGHZ	1	ECS, INC.	ECS-260-10-36Q-ES-TR

Mechanical

Reference Designator	DESCRIPTION	VALUE	Qty	MFG	MFG_PN
?	SOCKET, 2POS, 0.100 PITCH,CONN SHUNT	?	2	SAMTEC	SNT-100-BK-G
?	CONNECTOR, TERMINAL BLOCK PLUG 2POS STR 3.81MM PITCH	?	2	PHOENIX CONTACT	5434926
?	PLUG, TERMINAL BLOCK 2POS 3.81MM P	?	8	PHOENIX CONTACT	1803578

Not Inserted

Reference Designator	DESCRIPTION	VALUE	Qty	MFG	MFG_PN
C155	CAP CER X7R, HIGH VOLTAGE	0.001uF	1	KEMET	C1812C102KHRACTU
JP3	RES JUMPER		0 1	KEYSTONE	5106
R52, R69, R86, R103, R120, R137, R154, R171	RES THICK FILM CHIP	100K	8	PANASONIC	ERJ-2GEJ104X
R80	RES PRECISION THICK FILM CHIP	21K	1	PANASONIC	ERJ-1GNF2102C