

DS90UH947-Q1EVM

Designator	Quantity	Description	Manufacturer	PartNumber	Alternate Manufacturer	Alternate PartNumber
IPCBB1	1	Printed Circuit Board	Any	SV601153	-	-
C1, C2, C3, C4, C6, C15, C25, C32, C39, C56	10	CAP, CERM, 10 µF, 25 V, +/- 10%, X5R, 0805	Samsung	CL21A106KAFN3NE		
C5, C21, C29, C43, C45, C47, C50, C51, C83, C106, C116, C123, C133, C137	14	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	MuRata	GRM21BR71A106KE51L		
C7, C14, C23, C46, C54, C55, C69, C70, C71, C81, C82, C84, C96, C97, C98, C104, C105, C107, C108, C110, C111, C113, C117, C121, C122, C126, C129, C131, C132, C135, C136	31	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	MuRata	GRM155R71C104KA88D		
C8, C24	2	CAP, TA, 1uF, 16V, +/-10%, 9.3 ohm, SMD	Vishay-Sprague	293D105X9016A2TE3		
C9, C124	2	CAP, TA, 22uF, 25V, +/-20%, 0.7 ohm, SMD	Vishay-Sprague	293D226X0025D2TE3		
C10, C127, C130, C134	4	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	MuRata	GRM21BR71C475KA73L		
C11, C13, C20, C31, C128	5	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	AVX	06031C103JAT2A		
C12	1	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	Kemet	C0603C104J3RAC	-	-
C16, C17, C18, C26, C27, C33, C34, C40, C41, C42, C57, C58, C59, C67, C68, C77, C80	17	CAP, CERM, 0.01uF, 50V, +/-10%, COG/NP0, 0402	MuRata	GCM155R71H103KA55D		
C19, C28, C35, C36, C44, C60	6	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H104KA93D		
C22, C30, C37, C38, C48, C63, C120	7	CAP, CERM, 1 µF, 35 V, +/- 10%, JB, 0402	TDK	C1005JB1V105K050BC		
C49	1	CAP, CERM, 150pF, 50V, +/-5%, COG/NP0, 0402	MuRata	GRM1555C1H151JA01D		
C52, C61, C119	3	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	TDK	C1608X7R1C105K		
C53, C112	2	CAP, CERM, 10pF, 50V, +/-5%, COG/NP0, 0402	MuRata	GRM1555C1H100JA01D		
C62	1	CAP, TA, 22uF, 20V, +/-20%, 0.7 ohm, SMD	Vishay-Sprague	293D226X0020D2TE3		
C64	1	CAP, CERM, 1uF, 6.3V, +/-20%, X5R, 0402	TDK	C1005X5R0J105M		
C65	1	CAP, TA, 2.2uF, 25V, +/-10%, 3.8 ohm, SMD	Vishay-Sprague	293D225X9025B2TE3		
C66	1	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0805	AVX	08051C103KAT2A		
C73, C74, C76, C78	4	CAP, CERM, 0.1 µF, 50 V, +/- 10%, COG/NP0, 0402	TDK	C1005X7R1H104K		
C87, C88	2	CAP, CERM, 4.7pF, 25V, +/-5%, COG/NP0, 0402	MuRata	GRM1555C1E4R7CA01D		
C99, C103	2	CAP, CERM, 220 pF, 50 V, +/- 1%, COG/NP0, 0603	AVX	06035A221FAT2A		
C100, C101	2	CAP, CERM, 20 pF, 100 V, +/- 5%, COG/NP0, 0603	MuRata	GRM1885C2A200JA01D		
C102	1	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	Kemet	C0603X222K5RACTU		
C109	1	CAP, CERM, 0.47uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C474KA88D		
C114	1	CAP, TA, 100uF, 16V, +/-20%, 0.1 ohm, SMD	Kemet	T495D107M016ATE100		
C115	1	CAP, CERM, 47uF, 16V, +/-20%, X5R, 1210	MuRata	GRM32ER61C476ME15L		
C118	1	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H332KA01D		
C125	1	CAP, TA, 2.2uF, 25V, +/-10%, 6.3 ohm, SMD	Vishay-Sprague	293D225X9025A2TE3		
D1, D6, D7, D9, D10	5	LED, Green, SMD	Würth Elektronik eiSos	150060VS75000		

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D3	1	LED, Orange, SMD	Lite-On	LTST-C190KFCT		
D4	1	LED, Green, SMD	Lite-On	LTST-C190GKT		
D8	1	Diode, Schottky, 40V, 1A, SOD-123	Diodes Inc.	1N5819HW-7-F		
D11	1	Diode, Zener, 7.5V, 550mW, SMB	ON Semiconductor	1SMB5922BT3G		
F1	1	Fuse, 7 A, 24 V, SMD	Littelfuse	0429007.WRML		
FID1, FID2, FID3	3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A		
H1, H2, H5, H6, H9, H11	6	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	-	-
H3, H4, H7, H8, H10, H12	6	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	-	-
J1	1	Connector, Audio Jack, 3.5mm, Stereo, SMD	CUI Inc.	SJ-3523-SMT		
J2, J5, J6, J7, J8, J15, J16, J22, J23, J24, J27, J28, J30, J32, J35, J39, J42, J45, J46, J47, J48, J49, J50, J51, J53, J54, J55, J56, J58, J59, J61, J65, J66, J67	34	Header, 100mil, 2x1, Gold, TH	TE Connectivity	5-146261-1		
J3, J14, J18, J19, J26, J33, J37, J40, J41, J44, J60	11	Header, 100mil, 3x1, Gold, TH	Samtec	TSW-103-07-G-S		
J4, J62, J63, J64	4	Header, 100mil, 3x1, Tin, TH	TE Connectivity	5-146278-3		
J9, J11, J12, J13	4	Connector, End launch SMA, 50 ohm, SMT	Emerson Network Power	142-0701-851		
J10, J43	2	Header, TH, 100mil, 10x2, Gold plated, 230 mil above insulator	Samtec	TSW-110-07-G-D		
J20	1	Header, 100mil, 4x1, White, TH	Molex	0022112042		
J21	1	Header, TH, 100mil, 16x2, Gold plated, 230 mil above insulator	Samtec, Inc.	TSW-116-07-G-D		
J25	1	Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	Samtec, Inc.	TSW-104-07-G-S		
J29	1	Connector, Receptacle, Mini-USB Type B, R/A, Top Mount SMT	TE Connectivity	1734035-2		
J31	1	Header, 100mil, 7x2, Tin, TH	Sullins Connector Solutions	PEC07DAAN		
J36	1	Connector, DC Jack 2.1X5.5 mm, TH	CUI Inc.	PJ-102A		
J57	1	Header, 100mil, 5x2, Tin, TH	Sullins Connector Solutions	PEC05DAAN		
J68	1	Standard Banana Jack, Insulated, Black	Keystone	6092		
J69	1	Standard Banana Jack, Insulated, Red	Keystone	6091		
L1, L7, L13	3	1.5A Ferrite Bead, 330 ohm @ 100MHz, SMD	MuRata	BLM18SG331TN1D		
L2	1	Ferrite Bead, 1000 ohm @ 100 MHz, 0.35 A, 0402	MuRata	BLM15AX102SN1D		
L3, L5	2	Ferrite Bead, 1000 ohm @ 100 MHz, 0.8 A, 0603	TDK	MPZ1608S102ATA00		
L4, L6, L8	3	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	MuRata	BLM18SG121TN1D		
L9	1	Ferrite Bead, 60 ohm @ 100MHz, 0.8A, 0603	Taiyo Yuden	BK1608HS600-T		
L10, L11	2	Coupled inductor, 0.28 A, 0.41 ohm, +/- 25%, SMD	MuRata	DLW21SN900HQ2L		
L14	1	Inductor, Shielded Drum Core, Ferrite, 4.7uH, 4.2A, 0.02 ohm, SMD	Würth Elektronik eiSos	7440650047		
LBL1	1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	-	-
P1	1	HSD Right Angle Plug for PCB, TH	Rosenberger	D4S20D-40ML5-Z		
Q3, Q4	2	MOSFET, N-CH, 50 V, 0.22 A, SOT-23	Fairchild Semiconductor	BSS138	None	
R1, R2	2	RES, 100 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402100RFKED		

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R3, R7, R9, R10, R16, R20, R21, R22, R32, R34, R38, R39, R42, R43, R106, R107, R111, R126, R127, R131, R134, R135, R136, R137, R138, R139, R140, R141, R143, R144, R145, R146, R163, R198, R203, R206	36	RES, 0, 5%, 0.063 W, 0402	Panasonic	ERJ-2GE0R00X		
R4, R5, R6, R8, R24, R29, R103, R104, R112, R116, R118, R154, R156, R181, R184, R194, R208	17	RES, 10.0 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040210K0FKED		
R13, R33, R36, R158, R160, R189, R195, R204, R207	9	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA		
R17, R40, R110	3	RES, 49.9, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040249R9FKED		
R18, R19	2	RES, 0, 5%, 0.05 W, 0201	Panasonic	ERJ-1GE0R00C		
R23, R35, R148, R173	4	RES, 2.4 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04022K40JNED		
R25, R37	2	RES, 0, 5%, 0.063 W, 0402	Yageo America	RC0402JR-070RL		
R27, R123, R124	3	RES, 4.7k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04024K70JNED		
R30	1	RES, 470 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402470RJNED		
R31, R152	2	RES, 180, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402180RJNED		
R41, R193, R196, R200, R205	5	RES, 100k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402100KJNED		
R49, R60, R79, R85	4	RES, 115 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402115KFKED		
R50, R71, R86, R98	4	RES, 107 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402107KFKED		
R51, R87	2	RES, 113 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402113KFKED		
R52, R88	2	RES, 82.5 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040282K5FKED		
R53, R89	2	RES, 51.1 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040251K1FKED		
R54, R67, R90, R94	4	RES, 30.9 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040230K9FKED		
R55, R64, R66, R75, R91, R93	6	RES, 40.2 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040240K2FKED		
R58	1	RES, 133 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402133KFKED		
R59	1	RES, 147 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402147KFKED		
R61, R69, R78, R96	4	RES, 90.9 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040290K9FKED		
R62	1	RES, 66.5 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040266K5FKED		
R63	1	RES, 21.5 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040221K5FKED		
R68, R95	2	RES, 52.3 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040252K3FKED		
R70, R97	2	RES, 105 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402105KFKED		
R72, R99	2	RES, 118 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402118KFKED		
R76	1	RES, 35.7 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040235K7FKED		
R77	1	RES, 71.5 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040271K5FKED		
R80	1	RES, 137 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW0402137KFKED		
R81	1	RES, 80.6 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040280K6FKED		
R102	1	RES, 1.0 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04021K00JNED		
R108, R109	2	RES, 1.50k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K50FKED		

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R115, R117, R119, R120, R121, R122, R125, R128, R130	9	RES, 100, 1%, 0.05 W, 0201	Panasonic	ERJ-1GEF1000C		
R132	1	RES, 0.51, 1%, 0.1 W, AEC-Q200 Grade 1, 0603	Panasonic	ERJ-3RQFR51V		
R133	3	RES, 3.24k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04023K24FKED		
R157, R159						
R149, R174	2	RES, 220, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402220RJNED		
R153, R178	2	RES, 1.5 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04021K50JNED		
R155	1	RES, 3.0 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04023K00JNED		
R161	1	RES, 1.65k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K65FKED		
R162	1	RES, 1.37k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K37FKED		
R176, R177	2	RES, 33 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233R0JNED	-	-
R179, R182	2	RES, 33k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233K0JNED	-	-
R180	1	RES, 1.2 M, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06031M20JNEA		
R183	1	RES, 200 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402200RJNED		
R187	1	RES, 22.1k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040222K1FKED		
R188	1	RES, 124k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402124KFKED		
R197	1	RES, 1.87k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021K87FKED		
R199	1	RES, 4.99k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04024K99FKED		
S1	1	Switch, Slide, SPST 3 poles, SMT	CTS Electrocomponents	219-3LPST		
S2, S3, S6	3	Switch, Slide, SPST 8 poles, SMT	CTS Electrocomponents	219-8MST		
S4, S9	2	Switch, Normally open, 2.3N force, 200k operations, SMD	C and K Components	KSR221GLFS		
S5	1	DIP Switch, 4 position slide actuator, SPST, SMD	Omron Electronic Components	A6S-4104-H		
SH-J4, SH-J14, SH-J16, SH-J18, SH-J19, SH-J26, SH-J33, SH-J37, SH-J40, SH-J41, SH-J46, SH-J48, SH-J49, SH-	14	Shunt, 100mil, Gold plated, Black	3M	969102-0000-DA	Samtec	SNT-100-BK-G
U2	1	1080p OpenLDI to FPD-Link III Serializer with HDCP, RGC0064K	Texas Instruments	DS90UH947RGCQ1	None	
U3	1	SINGLE-ENDED, ANALOG-INPUT 24-BIT, 96-kHz STEREO A/D CONVERTER, PW0014A	Texas Instruments	PCM1808PW	None	
U4	1	Single Output Automotive LDO, 750 mA, Fixed 5 V Output, 6 to 26 V Input, 5-pin PFM (KVU), -40 to 125 degC, Green (RoHS & no Sb/Br)	Texas Instruments	TL751M05QKVURQ1	None	Equivalent
U5	1	4-CHANNEL ESD-PROTECTION ARRAY FOR HIGH-SPEED DATA INTERFACES, DRY006A	Texas Instruments	TPD4E004DRY	Texas Instruments	
U6	1	Mixed Signal MicroController, PN0080A	Texas Instruments	MSP430F5529IPN	Texas Instruments	
U7	1	TCA9406 Dual Bidirectional 1-MHz I2C-BUS and SMBus Voltage Level-Translator, 1.65 to 3.6 V, -40 to 85 degC, 8-pin US8 (DCU), Green (RoHS & no Sb/Br)	Texas Instruments	TCA9406DCUR	None	Equivalent
U8	1	6-BIT BIDIRECTIONAL VOLTAGE-LEVEL TRANSLATOR WITH AUTO-DIRECTION SENSING AND ±15-kV ESD PROTECTION, PW0016A	Texas Instruments	TXB0106PWR	Texas Instruments	
U10	1	Single Output LDO, 500 mA, Adjustable 0.8 to 3.6 V Output, 0.8 to 5.5 V Input, with Programmable Soft Start, 10-pin SON (DRC), -40 to 125 degC, Green (RoHS & no Sb/Br)	Texas Instruments	TPS74701DRCR	None	Equivalent
U11	1	Dual Output LDO, 1 A, Fixed 1.8, 3.3 V Output, 2.7 to 10 V Input, 28-pin HTSSOP (PWP), -40 to 125 degC, Green (RoHS & no Sb/Br)	Texas Instruments	TPS767D318PWP	None	Equivalent
U12	1	800 mA Fast-Response High-Accuracy Adjustable LDO Linear Regulator with Enable and Soft-Start, 7-pin TO-263, Pb-Free	Texas Instruments	LP38851S-ADJ/NOPB		
U17	1	500mA, Low Quiescent Current, Ultra-Low Noise, High PSRR Low-Dropout Linear Regulator, DRB0008A	Texas Instruments	TPS73533DRBR	Texas Instruments	TPS73533DRBT
Y1	1	OSC, 12.288 MHz, 3.3 Vdc, SMD	ECS Inc.	ECS-8FA3X-122.8-TR		
Y2	1	OSC, 96 MHz, 3.3 Vdc, SMD	Fox Electronics	FXO-HC736R-96		
Y3	1	Crystal, 24.000MHz, 20pF, SMD	ECS Inc.	ECS-240-20-5PX-TR		
C86	0	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	MuRata	GRM155R71C104KA88D		
J17, J52	0	RIGHT ANGLE PLUG FOR PCB	Rosenberger	59S20X-400L5-Y		
J34	0	Header, 100mil, 2x1, Gold, TH	TE Connectivity	5-146261-1		
R11, R12, R14, R15	0	RES, 0, 5%, 0.05 W, 0201	Panasonic	ERJ-1GE0R00C		
R26, R28, R150, R151	0	RES, 0, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06030000Z0EA		

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R44, R45, R46, R47, R165, R166, R167, R168, R169, R170, R171, R172, R190, R191	0	RES, 51, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040251R0JNED		
R48, R56, R57, R65, R73, R74, R82, R83, R84, R92, R100, R101, R113, R142, R147, R192	0	RES, 0, 5%, 0.063 W, 0402	Panasonic	ERJ-2GE0R00X		
R105	0	RES, 10.0 k, 1%, 0.063 W, 0402	Vishay-Dale	CRCW040210K0FKED		
R114, R164	0	RES, 3.24k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04023K24FKED		
R209	0	RES, 0, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04020000Z0ED		
U1	0	Single High Speed Differential Driver, 8-pin Narrow SOIC, Pb-Free	Texas Instruments	DS90LV017ATM/NOPB		
U9	0	4.5V to 18V Input, 2-A Synchronous Step-Down SWIFT™ Converter, PWP0014E	Texas Instruments	TPS54225PWPR	Texas Instruments	TPS54225PWP
U15	0	Low-Capacitance +/- 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	Texas Instruments	TPD2E001DRLR	None	Equivalent
X2	0	OSC, 170 MHz, 3.3 Vdc, SMD	Fox Electronics	FXO-LC735R-170		

Notes:

Substitutions made according to Alternate PartNumber must meet datasheet parameters, not just the Description specified.

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