

Bill of Materials

Project: ALI3-10 Inch
 Project Name: ALI3-10 Inch
 Revision: A
 Variant: Internal 5V0 Supply



Report Date: 4/30/2015 4:11:44 PM

#	Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Temp-Range	Fitted	Note
1	10	C1, C2, C10, C12, C14, C16, C24, C29, C31, C32	CAP CER 0.1UF 50V 10% X7R 0603	AVX Corporation	06035C104KAT2A	-55 to 125C	Fitted	
2	1	C3	CAP POLYMER HYB 10uF 20% 50V SMD	Panasonic Electronic Components	EEH-ZC1H100R	-55 to 125C	Fitted	
3	1	C4	CAP ALUM 47UF 50V 20% SMD	Panasonic Electronic Components	EEE-1HA470XP	-40 to 85C	Fitted	
4	1	C5	CAP ALUM 33UF 50V 20% SMD	Panasonic Electronic Components	EEE-1HA330XP	-40 to 85C	Fitted	
5	3	C6, C7, C11	CAP CER 1UF 50V 10% X7R 0805	Taiyo Yuden	UMK212B7105KG-T	-55 to 125C	Fitted	
6	1	C8	CAP CER 2200PF 50V 5% NP0 0603	Murata	GRM1885C1H222JA01D	-55 to 125C	Fitted	
7	2	C9, C13	CAP CER 1000PF 50V 10% X7R 0603	AVX Corporation	06035C102KAT2A	-55 to 125C	Fitted	
8	1	C15	CAP CER 0.022UF 50V 10% X7R 0603	AVX Corporation	06035C223KAT2A	-55 to 125C	Fitted	
9	1	C17	CAP CER 10000PF 50V 10% X7R 0603	AVX Corporation	06035C103KAT2A	-55 to 125C	Fitted	
10	2	C18, C19	CAP CER 10UF 25V 10% X5R 1206	AVX Corporation	12063D106KAT2A	-55 to 85C	Fitted	
11	6	C20, C21, C30, C35, C36, C37	CAP CER 10UF 10V 10% X5R 0603	TDK Corporation	C1608X5R1A106K080AC	-55 to 85C	Fitted	
12	1	C23	CAP TANT 47UF 25V 10% 2917	AVX Corporation	TAJD476K025RNJ	-55 to 125C	Fitted	
13	2	C33, C34	CAP CER 1UF 25V 10% X5R 0603	Kemet	C0603C105K3PACTU	-55 to 85C	Fitted	
14	1	CON1	CONN RCPT LCEDI R/A 40POS SMD	Starconn	300E40-0010RA-G3-40	-	Fitted	
15	1	CON2	CONN RCPT R/A MINI DISPLAYPORT TH	ADAM TECH	MDPC-S-RA	-20 to 85C	Fitted	
16	1	CON3	CONN POWER JACK 2.5X5.5MM HI CUR	CUI Inc	PJ-002BH-SMT-TR	-25 to 85C	Fitted	
17	1	CON4	CONN HEADER 2POS R/A 1.25MM T/H	TE Connectivity AMP Connectors	1734829-2	-25 to 85C	Fitted	
18	1	D1	DIODE SCHOTTKY 60V 1A SMA	ON Semiconductor	MBRA160T3G	-55 to 150C	Fitted	
19	2	D3, D4	DIODE SCHOTTKY 30V 2A SOD123L	ON Semiconductor	MBR230LSFT1G	-55 to 125C	Fitted	
20	1	ESD1	ESD Bag	3M	TBD		Fitted	
21	1	J2	CONN FPC BOTTOM 6POS 1.00MM R/A	Molex Inc	0522710679	-40 to 85C	Fitted	
22	1	J4	CONN HEADER 3.5MM 2POS R/A SMD	TE Connectivity AMP Connectors	1734829-2	-25 to 85C	Fitted	
23	1	L1	FIXED IND 22uH 5.2A 38 mOHM SMD	Bourns	SRR1210-220M	-40 to 125C	Fitted	
24	1	L2	FIXED IND 10uH 3.8A 25 mOHM SMD	Bourns	SRU1038-100Y	-40 to 125C	Fitted	
25	1	L3	FIXED IND 4.7uH 1.6A 70 mOHM SMD	Bourns	SRR0603-4R7ML	-40 to 125C	Fitted	
26	1	Label1	Label, Product	Avnet	ALI3-AMPIRE10-PCB-A		Fitted	
27	1	Label2	Label, Serial Number	Avnet	TBD		Fitted	
28	1	Label_ESD1	Label, ESD	3M	TBD		Fitted	
29	1	PCB1	BARE PCB Part Number	Avnet	ALI3-AMPIRE10-PCB-A		Fitted	
30	1	Q1	MOSFET N-CH 40V 9A 8-SOIC	International Rectifier	IRF7469TRPBF	-55 to 150C	Fitted	
31	1	R1	RES 261K OHM 0603 1% 1/10W	Vishay Dale	CRCW0603261KFKEA	-55 to 125C	Fitted	
32	14	R4, R7, R10, R11, R13, R14, R34, R35, R36, R37, R40, R45, R47, R49	RES 0.0 OHM JUMP 0402 1/16W	Vishay Dale	CRCW04020000Z0ED	-55 to 125C	Fitted	
33	1	R5	RES 10.0K OHM 0603 1% 1/10W	Vishay Dale	CRCW060310K0FKEA	-55 to 125C	Fitted	
34	1	R8	RES 2.40K OHM 0603 1% 1/10W	Vishay Dale	CRCW06032K40FKEA	-55 to 125C	Fitted	
35	1	R9	RES 0.1 OHM 2010 1% 1W	Stackpole Electronics Inc	CSRN2010FKR100	-55 to 155C	Fitted	
36	1	R12	RES 4.70 OHM 0603 1% 1/10W	Vishay Dale	CRCW06034R70FKEA	-55 to 125C	Fitted	
37	1	R15	RES 16.5K OHM 0603 1% 1/10W	Vishay Dale	CRCW060316K5FKEA	-55 to 125C	Fitted	
38	1	R16	RES 30.1K OHM 0603 1% 1/10W	Vishay Dale	CRCW060330K1FKEA	-55 to 125C	Fitted	
39	1	R17	RES 200 OHM 0603 1% 1/10W	Vishay Dale	CRCW0603200RFKEA	-55 to 125C	Fitted	
40	1	R18	RES 21.0K OHM 0603 1% 1/10W	Vishay Dale	CRCW060321K0FKEA	-55 to 125C	Fitted	
41	1	R19	RES 20.0K OHM 0603 1% 1/10W	Vishay Dale	CRCW060320K0FKEA	-55 to 125C	Fitted	
42	2	R20, R21	RES 1.00K OHM 0402 1% 1/16W	Vishay Dale	CRCW04021K00FKED	-55 to 125C	Fitted	
43	4	R22, R24, R32, R48	RES 10.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K0FKED	-55 to 125C	Fitted	

44	1	R23	RES 30.9K OHM 0402 1% 1/16W	Vishay Dale	CRCW040230K9FKED	-55 to 125C	Fitted	
45	3	R25, R33, R39	RES 4.70K OHM 0402 1% 1/16W	Vishay Dale	CRCW04024K70FKED	-55 to 125C	Fitted	
46	2	R31, R38	RES 100K OHM 0402 1% 1/16W	Panasonic Electronic Components	ERJ-2RKF1003X	-55 to 125C	Fitted	
47	1	REG1	IC REG BUCK ADJ 1A 6TSOT	Texas Instruments	LMR12010XMK/NOPB	-40 to 125C	Fitted	
48	1	U1	IC LED DRIVER CTRLR DIM 20TSSOP	Maxim Integrated	MAX16814AUP+	-40 to 125C	Fitted	
49	1	U2	IC 4BIT NON-INV TRANSLTR 14TSSOP	Texas Instruments	TXS0104EPWR	-40 to 85C	Fitted	
50	1	U3	ACCELEROMETER LOW G 3-AXIS QFN	Freescale Semiconductor	FXLS8471QR1	-40 to 85C	Fitted	
51	1	U4	NEXT GEN DRV260X LRA/ERM DRIVER	Texas Instruments	DRV2605LDGSR	-40 to 85C	Fitted	
52	0	C22	CAP CER 10000PF 50V 10% X7R 0603	AVX Corporation	06035C103KAT2A	-55 to 125C	Not Fitted	
53	0	C25, C26	CAP CER 10UF 25V 10% X5R 1206	AVX Corporation	12063D106KAT2A	-55 to 85C	Not Fitted	
54	0	C27, C28	CAP CER 10UF 10V 10% X5R 0603	TDK Corporation	C1608X5R1A106K080AC	-55 to 85C	Not Fitted	
55	0	D2	DIODE GEN PURP 80V 250MA SOT23-3	Infineon Technologies	BAS 16 E6327	-65 to 150C	Not Fitted	
56	0	D5, D6, D7	DIODE SCHOTTKY 30V 2A SOD123L	ON Semiconductor	MBR230LSFT1G	-55 to 125C	Not Fitted	
57	0	J1	CONN HEADR BRKWAY .100 4POS STR, SINGLE ROW	TE CONNECTIVITY / AMP	5-146280-4	-65 to 105C	Not Fitted	
58	0	J3	CONN HEADR BRKWAY .100 6POS STR, SINGLE ROW	TE Connectivity AMP Connectors	5-146280-6	-65 to 105C	Not Fitted	
59	0	L4	FIXED IND 6.8uH 1.2A 100 mOHM SMD	Bourns	SRR0603-6R8ML	-40 to 125C	Not Fitted	
60	0	M1, M2, M3, M4	MTG_3.2mm-1				Not Fitted	
61	0	R2, R3, R6, R26, R27, R41, R42, R43, R44, R46	RES 0.0 OHM JUMP 0402 1/16W	Vishay Dale	CRCW04020000Z0ED	-55 to 125C	Not Fitted	
62	0	R28, R30	RES 10.0K OHM 0402 1% 1/16W	Vishay Dale	CRCW040210K0FKED	-55 to 125C	Not Fitted	
63	0	R29	RES 52.3K OHM 0402 1% 1/16W	Vishay Dale	CRCW040252K3FKED	-55 to 125C	Not Fitted	
64	0	REG2	IC REG BUCK ADJ 1A 6TSOT	Texas Instruments	LMR12010XMK/NOPB	-40 to 125C	Not Fitted	
65	0	TP1, TP2, TP3, TP4, TP5, TP6, TP7	Test Point-0.045"			-	Not Fitted	
Approved				Notes				