

Bill of Materials

TI DESIGNS
TIDA-00352 SDI Video Aggregation Daughter Card

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	16	C1,C2,C12,C13,C23,C24,C34,C35,C47,C53,C55,C56,C59,C65,C67,C68	0.1uF	Capacitors	TDK Corporation	C1005X7R1C104K		402	Any (5V+ Rating)
2	8	C3,C4,C14,C15,C25,C26,C36,C37	0.01uF	Capacitors	Murata Electronics North America	GRM155R60J103KA01D		402	Any (5V+ Rating)
3	16	C5,C11,C16,C22,C28,C33,C39,C44,C45,C49,C50,C54,C57,C61,C62,C66	1uF	Capacitors	Taiyo Yuden	LMK105BJ105KV-F		402	Any (5V+ Rating)
4	8	C6,C7,C17,C18,C27,C29,C38,C40	100pF	Capacitors	Avx Corporation	04026C101KAT2A		402	Any (5V+ Rating)
5	5	C8,C19,C30,C41,C81	1uF	Capacitors	TDK Corporation	C1608X7R1C105K		603	Any (5V+ Rating)
6	17	C9,C10,C20,C21,C31,C32,C42,C43,C46,C48,C51,C52,C58,C60,C63,C64,C80	4.7uF	Capacitors	TDK Corporation	C1608X5R0J475K/0.80		603	Any (5V+ Rating)
7	5	C69,C74,C82,C85,C91	68uF	Capacitors	TDK Corporation	C3225X5R0J686M		1210	Any (5V+ Rating)
8	4	C70,C75,C86,C92	10uF	Capacitors	Taiyo Yuden	EMK212BJ106KG-T		805	Any (5V+ Rating)
9	4	C71,C76,C87,C93	1uF	Capacitors	Yageo America	CC1206KKX7R8BB105		1206	Any (5V+ Rating)
10	4	C72,C77,C88,C94	0.1uF	Capacitors	Murata Electronics North America	GRM319R71H104KA01D		1206	Any (5V+ Rating)
11	4	C73,C78,C89,C95	0.01uF	Capacitors	Murata Electronics North America	GRM21BR72A103KA01L		805	Any (5V+ Rating)
12	1	C79	100uF	Capacitors	Murata Electronics North America	GRM43SR60J107ME20L		1812	Any (5V+ Rating)
13	1	C83	10uF	Capacitors	Taiyo Yuden	LMK325F106ZH-T		1210	Any (5V+ Rating)
14	1	C84	1uF	Capacitors	Avx Corporation	C1210C105K8RACTU		1210	Any (5V+ Rating)
15	1	C90	10pF	Capacitors	Avx Corporation	06031A100JAT2A		603	Any (5V+ Rating)
16	4	D1, D2, D3, D4	RED	Optoelectronics	Avago Technologies Us Inc	HSMS-C170		0603	
17	1	D5	BAT60A 10V, 3A	Optoelectronics	Infineon Technologies	BAT 60A E6327		SOD323	
18	4	D6, D7, D9, D10	GREEN	Optoelectronics	Avago Technologies Us Inc	HSMG-C170		0603	
19	1	D8	BLUE	Optoelectronics	Avago Technologies Us Inc	HSMR-C170		0603	
20	1	JMP1	0.1" Header (1x3)	Connectors	Samtec	HTSW-150-08-G-S		HDR_THVT_1X3_100	
21	3	JMP2, JMP3, JMP4	0.1" Header (1x2)	Connectors	Samtec	HTSW-150-08-G-S		berg2	
22	1	J1	SEAM_ASP-134488-01	Connectors	Samtec	ASP-134488-01		ASP-134488	
23	1	J2, J4, J5, J7, J8, J10, J11, J13	Surface Mount SMA	Connectors	Rosenberger	32K141-40M		32k141-40m-fr4wwia	
24	1	J3, J6, J9, J12, J14, J15, J16, J17	Edge Mount BNC	Connectors	Amphenol Connex	112740-13		BNC-Jack_smrt_112740-13	
25	4	L1,L2,L3,L4	6.8nH	Inductor	Würth Electronics Inc	744765068A		402	
26	8	L5,L6,L7,L8,L9,L10,L11,L12	5.6nH	Inductor	Würth Electronics Inc	744765056A		402	
27	4	L13,L14,L15,L16	0.0 (Zero Ohm)	Resistors	Koa Speer	RK73Z2ETTE		1210	
28	2	P1, P2	Solderless Banana Jack	Banana Plug	Emerson Network Power Co	108-0740-001		JACK_THVT_BANANA_500DIA	
29	1	P3	DC Power Jack	Power Jack	Cui Inc	PJ-002AH		con_rapc722_jack_thvt_3	
30	4	Q1, Q2, Q3, Q4	FDV301N	N - Channel FET	Fairchild	FDV301N		SOT23	
31	8	R1,R15,R29,R43,R97,R98,R104,R105	249	Resistors	Venkel	CR0402-16W-2490FT		402	Any (1% Tolerance)
32	20	R2,R3,R8,R13,R16,R17,R22,R27,R30,R31,R36,R41,R44,R45,R50,R55,R73,R74,R93,R94	DNI_0	Resistors	Panasonic - Ecg	ERJ-2GE0R00X		402	Any (1% Tolerance)
33	16	R4,R5,R7,R18,R19,R21,R32,R33,R35,R46,R47,R49,R75,R76,R95,R96	4.99K	Resistors	Venkel	CR0402-16W-4991FT		402	Any (1% Tolerance)

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34	4	R6,R20,R34,R48	DNI_4.99K	Resistors	Venkel	CR0402-16W-4991FT		402	Any (1% Tolerance)
35	8	R9,R12,R23,R26,R37,R40,R51,R54	0	Resistors	Panasonic - Ecg	ERJ-2GE0R00X		402	Any (1% Tolerance)
36	28	R10,R11,R24,R25,R38,R39,R52,R53,R57,R58,R59,R60,R62,R64,R65,R67,R68,R70,R77,R78,R79,R81,R82,R84,R85,R87,R89,R90	75	Resistors	Panasonic - Ecg	ERA-2AEB750X		402	Any (1% Tolerance)
37	4	R14,R28,R42,R56	37.4	Resistors	Yageo America	RC0402FR-0737R4L		402	Any (1% Tolerance)
38	8	R61,R63,R66,R69,R80,R83,R86,R88	49.9	Resistors	Venkel	CR0402-16W-4992FT		402	Any (1% Tolerance)
39	4	R71,R72,R91,R92	750	Resistors	Panasonic - Ecg	ERJ-2RKF7500X		402	Any (1% Tolerance)
40	1	R99	4.99K	Resistors	Panasonic - Ecg	ERJ-3EKF4991V		603	Any (1% Tolerance)
41	1	R100	3.57K	Resistors	Panasonic - Ecg	ERJ-2RKF3571X		603	Any (1% Tolerance)
42	1	R101	1.13K	Resistors	Yageo America	RC0603FR-071K13L		603	Any (1% Tolerance)
43	1	R102	3	Resistors	Venkel	CR0603-10W-3R01FT		603	Any (1% Tolerance)
44	1	R103	1.2K	Resistors	Panasonic - Ecg	ERJ-2RKF1201X		402	Any (1% Tolerance)
45	4	U1,U2,U3,U4	LMH0034	Integrated Circuits	Texas Instruments	LMH0034MA		SOIC16	
46	2	U5,U6	LMH0202	Integrated Circuits	Texas Instruments	LMH0202MT		TSSOP16	
47	1	U7	TPS74401RGW	Integrated Circuits	Texas Instruments	TPS74401RGWT		RGW20	

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