

Bill of Materials

SD302EVK LMH0302 Cable Driver EVK

Project: SD302EVK_RevB.PrjPCB
 Variant: Standard Build
 Revision: B



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Item	Designator	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	Quantity	Footprint	Value	Tolerance	Voltage	Power Rating	Description	Comment
1	J1, J2	Keystone Electronics	1287-ST	Digi-Key	1287-STK-ND	2	Faston_male_blade					Terminal, Quick Connect, Male	Power Supply Terminal
2	J3, J4	Johnson Components	142-0701-851	Digi-Key	J658-ND	2	SMA_50_Edge					Jack, SMA, Edge Launch, 18 GHz	SDI Input Connector
3	J5, J6	Trompeter	UCBJE20-1	Trompeter	UCBJE20-1	2	BNC_75_Tromp					75 Ohm BNC Edge-Launch	BNC_75_EDGE
4	J7	Molex/Waldom	15-91-2100	Digi-Key	WM17451-ND	1	HEADER_5X2					Header, 10 position, 5 X 2, .100 pitch, .240 mating length	Expansion Header
5	J8	Tyco Electronics Amp	87220-3	Digi-Key	A26544-ND	1	JUMPER_HIL_LOW					Header, 3-pin, .1 pitch, .318 mating length	Header, HD/SD selection
6	J9	Tyco Electronics Amp	87220-2	Digi-Key	A26542-ND	1	Jumper					Header, 2 pin, .1 pitch, .318 mating length	Enable Header
7	R2	Panasonic - ECG	ERJ-3EKF1000V	Digi-Key	P100HCT-ND	1	0402	100		50 V	1/10 W	Resistor, 100 ohms, 0402, 1/10 W	Differential Termination Resistor
8	U1	National Semiconductor	LMH0302TSQ	National Semiconductor	LMH0302TSQ	1	LLP16					Device under test	DUT, LMH0302
9	C1	Panasonic ECG	ECJ-3FF1C475Z	Digi-Key	PCC2474CT-ND	1	1206	4.7uF	-20% +80%	16 V		Cap, 4.7 uF, 1206, 16V	Power Supply Bypass Cap
10	C6	Murata Electronics North America	GRM219F51E105ZA01D	Digi-Key	490-1731-1-ND	1	0805	1 uF	-20%, +80%	25 V		Cap, 1.0 uF, 0805, 25 V	Power Supply Bypass
11	L1, L2	Panasonic - ECG	ELJ-QF5N6DF	Digi-Key	PCD1855CT-ND	2	0402	5.6 nH	.3 nH			Ind, 5.6 nH, 0402	Output Matching Network
12	R4, R6, R7, R8	Yageo	RC0402FR-0775RSL	Digi-Key	311-75.0LRCT-ND	4	0402	75	1%	50 V	1/16 W	Resistor, 75 ohms, 0402, 1/16 W	Output Matching Network, Output Termination
13	C4, C12, C13	Kemet	C0603C104J3RACTU	Digi-Key	399-1282-1-ND	3	0603_NEWER	0.1 uF	5%	25 V		Cap, 0.1 uF, 0603, 25 V	HD/SD Bypass, Power Supply Bypass
14	R3, R9	Panasonic - ECG	ERJ-3GEYJ751V	Digi-Key	P750GTR-ND	2	0402	750	5%	50 V	1/16 W	Resistor, 750 ohms, 0402, 1/16 W	Enable pull-up, RRef Resistor
15	C2, C3	Panasonic - ECG	ECJ-0EB0J105M	Digi-Key	PCC2257CT-ND	2	0402	1 uF	20%	6.3 V		Cap, 1 uF, 0402, 6.3V	Input Coupling Cap
16	C7, C8	Panasonic - ECG	ECJ-1VB0J475M	Digi-Key	PCC2318CT-ND	2	0603_NEWER	4.7 uF	20%	6.3 V		Cap, 4.7 uF, 0603, 6.3 V	Output Coupling Cap