Assembly Bill of Materials

Texas Instruments

Project Name:	DP83867ERGZ-R-EVM
Project File:	SV601189A.PrjPcb
Base ID:	SV601189
Schematic Rev:	A
Assembly Variant:	None
Build Quantity:	100
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Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Required	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Alternate Manufacturer	Alternate PartNumber
1	5V, GND	Terminal, Turret, TH, Double	Y	Keystone	1502-2	2	200	Digi-Key	1502-2K-ND				
2	C1, C4, C8, C37, C38	CAP, CERM, 1 µF, 10 V, +/- 10%, X5R, 0402	Y	TDK	C1005X5R1A105K050BB	5	500	Digi-Key	445-4114-1-ND	Mouser	810-C1005X5R1A105K		
3	C2, C9, C39, C40	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X5R, 0402	Y	TDK	C1005X5R1A104K050BA	4	400	Digi-Key	445-1265-1-ND	Mouser	810-C1005X5R1A104K		
4	C3, C5, C10, C11, C13, C49	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C102J3RACTU	6	600	Digi-Key	399-7752-1-ND	Mouser	80-C0402C102J3R		
5	C6	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0402	Y	MuRata	GRM155R71H103KA88D	1	100	Digi-Key	490-4516-1-ND	Mouser	81-GRM155R71H103KA8D		
6	C12, C29	CAP, CERM, 0.01 µF, 50 V, +/- 5%, X7R, 0402	Y	Kemet	C0402C103J5RACTU	2	200	Digi-Key	399-7758-1-ND	Mouser	80-C0402C103J5R		
7	C14, C36, C44, C47, C55, C48, C61	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	Y	Yageo America	CC0402JRNPO9BN101	7	700	Digi-Key	311-1024-1-ND	Mouser	603-CC402JRNPO9BN101		
8	C15, C16, C64	CAP, CERM, 27 pF, 50 V, +/- 1%, C0G/NP0, 0603	Y	Samsung Electro-Mechanics, Samsung Electro-Mechanics, Samsung	CL10C270FB8NNNC	3	300	[NoValue], [NoValue], Digi-Key	[NoValue], [NoValue], 1276-2245-6-ND				
9	C17, C19, C20, C22, C23, C25, C26, C28	CAP, CERM, 0.033 µF, 6.3 V, +/- 10%, X5R, 0201	Y	MuRata	GRM033R60J333KE01D	8	800	Digi-Key	490-3170-1-ND	Mouser	81-GRM033R60J333KE01		
10	C18, C21, C24, C27	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X5R, 0402	Y	TDK	C1005X5R0J104K	4	400	Digi-Key	445-1266-1-ND	Farnell	1844104		
11	C30, C31	CAP, CERM, 4700 pF, 2000 V, +/- 10%, X7R, 1812	Y	AVX	1812GC472KAT1A	2	200	Digi-Key	478-3003-1-ND	Mouser	581-1812GC472K		
12	C32	CAP, TA, 220 µF, 6.3 V, +/- 10%, 0.7 ohm, SMD	Y	Kemet	T491D227K006AT	1	100	Digi-Key	399-8378-1-ND	Mouser	80-T491D227K006		
13	C33, C50, C56, C57	CAP, CERM, 10 µF, 35 V, +/- 20%, X7R, 1206_190	Y	TDK	C3216X7R1V106M160AC	4	400	Digi-Key	445-8034-1-ND	Mouser	810-C3216X7R1V106M		
14	C34, C35, C42, C53, C59	CAP, CERM, 0.01 µF, 50 V, +/- 5%, X7R, 0603	Y	Kemet	C0603C103J5RACTU	5	500	Digi-Key	399-1092-1-ND	Mouser	80-C0603C103J5R		
15	C41, C52, C62	CAP, TA, 100 µF, 10 V, +/- 20%, 0.1 ohm, SMD	Y	Vishay-Sprague	593D107X0010D2TE3	3	300	Digi-Key	718-1100-1-ND	Mouser	74-593D107X0010D2TE3		
16	C43, C54, C60	CAP, CERM, 1000 pF, 50 V, +/- 10%, C0G/NP0, 0603	Y	AVX	06035A102KAT2A	3	300	Digi-Key	478-3718-1-ND	Mouser	581-06035A102KAT2A		
17	C45, C46	CAP, CERM, 1000 pF, 25 V, +/- 10%, X5R, 0402	Y	MuRata	GRM155R61E102KA01D	2	200	Digi-Key	GRM155R61E102KA01D-ND	Mouser	81-GRM155R61E102KA1D		
18	C51	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X7R, 0603	Y	Samsung	CL10B105KQ8NNNC	1	100	Digi-Key	1276-1024-2-ND				
19	C58	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	Y	Samsung	CL10B104KO8NNNC	1	100	Digi-Key	1276-1005-2-ND				
20	C63	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0805	Y	AVX	0805YD105KAT2A	1	100	Digi-Key	478-1411-1-ND	Mouser	581-0805YD105K		
21	C65	CAP, CERM, 4.7 µF, 10 V, +80/-20%, Y5V, 0805	Y	Yageo America	CC0805ZRY5V6BB475	1	100	Digi-Key	311-1371-2-ND	Farnell	2370725		
22	C66, C67, C68	CAP, CERM, 4700 pF, 100 V, +/- 10%, X7R, 0805	Y	AVX	08051C472KAT2A	3	300	Digi-Key	478-1356-1-ND	Mouser	581-08051C472K		
23	FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	3	300						
24	J1	Connector, Header, High Speed, 20 pairs, SMT	Y	Samtec	QTE-020-01-L-D-A	1	100	Digi-Key	SAM8128-ND				
25	J2, J3	Header, 100mil, 20x2, Gold, TH	Y	Samtec	TSW-120-07-G-D	2	200	Digi-Key	SAM1028-20-ND				
26	J4, J5, J6	Header, 100mil, 3x1, Gold, TH	Y	Samtec	TSW-103-07-G-S	3	300	Digi-Key	SAM1029-03-ND				
27	J7, J8. J9. J10	Header, 100mil, 2x1, Gold, TH	Y	Samtec	HTSW-102-07-G-S	4	400	Digi-Key	SAM8736-ND				
28	J11, J12	Mini-RFCable Connector 50 Ohm	Y	Samtec	MCX–J–P–H–ST–SM1	2	200	Digi-Key	MMCX-J-P-H-ST-SM1-ND				
29	J13	RJ-45, Right Angle, No LED, tab up	Y	AMP	1-406541-1	1	100	Digi-Key	A97716-ND	Mouser	571-1-406541-1		
30	J14	Connector, Receptacle, USB Type A, 9 Pins, R/A, TH	Y	FCI	10117835-002LF	1	100	Digi-Key	609-4662-ND	Mouser	649-10117835-002LF		
31	LBL1	Thermal Transfer Printable Labels, 1.250" W x 0.250" H - 10,000 per roll	Y	Brady	THT-13-457-10	1	100	Newark	04H3909				
32	LD1, LD2, LD3, LD4, LD5, LD6, LD7	LED, Green, SMD	Y	Everlight	QTLP630C4TR	7	700	Digi-Key	1080-1411-1-ND	Mouser	638-QTLP630C4TR		
33	P1	Header, 100mil, 4x2, Gold, TH	Y	Samtec	TSW-104-07-G-D	1	100	Digi-Key	SAM1028-04-ND				
34	P2	Header, 100mil, 5x2, Gold, TH	Y	Samtec	TSW-105-07-G-D	1	100	Digi-Key	SAM1028-05-ND				
35	R1, R2, R15, R16, R18, R87, R88, R89, R90	RES, 0, 5%, 0.063 W, 0402	Y	Vishay-Dale	CRCW04020000Z0ED	9	900	Digi-Key	541-0.0JCT-ND	Mouser	71-CRCW0402-0-E3		
36	R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106	RES, 0, 5%, 0.05 W, 0201	Y	Panasonic	ERJ-1GE0R00C	28	2800	Digi-Key	P0.0AGCT-ND	Mouser	667-ERJ-1GE0R00C		
37	R17, R50, R51, R54, R57, R58, R59, R67, R68, R70, R71, R72, R74, R77, R78, R79, R81, R82, R86	RES, 0, 5%, 0.1 W, 0603	Y	Yageo America	RC0603JR-070RL	19	1900	Digi-Key	311-0.0GRCT-ND	Mouser	603-RC0603JR-070RL		

#	Ref Des	Description		Manufacturer	Mfr Part Number	Qty		Supplier	Supplier Part Number	Supplier	Supplier Part Number	Alt Manufacturer	Alt Part Number
38	R19, R24, R28, R34, R37, R40	RES, 470, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-07470RL	6	600	Digi-Key	311-470HRCT-ND	Mouser	603-RC0603FR-07470RL		
39	R20	RES, 6.04 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW06036K04FKEA	1	100	Digi-Key	541-6.04KHCT-ND	Mouser	71-CRCW0603-6.04K-E3		
40	R21	RES, 6.04 k, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-076K04L	1	100	Digi-Key	311-6.04KHRCT-ND	Mouser	603-RC0603FR-076K04L		
41	R22, R23, R32, R39	RES, 2.49 k, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-072K49L	4	400	Digi-Key	311-2.49KHRCT-ND	Mouser	603-RC0603FR-072K49L		
42	R25, R26, R27, R29, R31, R33, R35, R36, R44	RES, 0, 5%, 0.1 W, 0603	Y	Vishay-Dale	CRCW06030000Z0EA	9	900	Digi-Key	541-0.0GCT-ND	Mouser	71-CRCW0603-0-E3		
43	R30, R38	RES, 11.0 k, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-0711KL	2	200	Digi-Key	311-11.0KHRCT-ND	Mouser	603-RC0603FR-0711KL		
44	R41	RES, 22, 5%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060322R0JNEA	1	100	Digi-Key	541-22GCT-ND	Mouser	71-CRCW0603J-22-E3		
45	R42	RES, 100, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW0603100RFKEA	1	100	Digi-Key	541-100HCT-ND	Mouser	71-CRCW0603-100-E3		
46	R43, R47, R48, R52, R53, R56	RES, 2.2 k, 5%, 0.063 W, 0402	Y	Vishay-Dale	CRCW04022K20JNED	6	600	Digi-Key	541-2.2KJCT-ND	Mouser	71-CRCW0402J-2.2K-E3		
47	R45	RES, 11.0 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060311K0FKEA	1	100	Digi-Key	541-11.0KHCT-ND	Mouser	71-CRCW0603-11K-E3		
48	R46	RES, 4.7 k, 5%, 0.1 W, 0603	Y	Vishay-Dale	CRCW06034K70JNEA	1	100	Digi-Key	541-4.7KGCT-ND	Mouser	71-CRCW0603J-4.7K-E3		
49	R55, R65, R66	RES, 1.00 M, 1%, 0.063 W, 0402	Y	Yageo America	RC0402FR-071ML	3	300	Digi-Key	311-1.00MLRCT-ND	Mouser	603-RC0402FR-071ML		
50	R61, R62, R63, R64	RES, 75.0, 1%, 0.063 W, 0402	Y	Vishay-Dale	CRCW040275R0FKED	4	400	Digi-Key	541-75.0LCT-ND	Mouser	71-CRCW0402-75-E3		
51	R69	RES, 750, 5%, 0.1 W, 0603	Y	Yageo America	RC0603JR-07750RL	1	100	Digi-Key	311-750GRCT-ND	Mouser	603-RC0603JR-07750RL		
52	R73	RES, 48.7 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW060348K7FKEA	1	100	Digi-Key	541-48.7KHCT-ND	Mouser	71-CRCW0603-48.7K-E3		
53	R76	RES, 45.3 k, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-0745K3L	1	100	Digi-Key	311-45.3KHRCT-ND	Mouser	603-RC0603FR-0745K3L		
54	R80	RES, 10.0 k, 1%, 0.1 W, 0603	Y	Yageo America	RC0603FR-0710KL	1	100	Digi-Key	311-10.0KHRCT-ND	Mouser	603-RC0603FR-0710KL		
55	R83	RES, 1.13 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW06031K13FKEA	1	100	Digi-Key	541-1.13KHCT-ND	Mouser	71-CRCW0603-1.13K-E3		
56	R85	RES, 4.53 k, 1%, 0.1 W, 0603	Y	Vishay-Dale	CRCW06034K53FKEA	1	100	Digi-Key	541-4.53KHCT-ND	Mouser	71-CRCW0603-4.53K-E3		
57	S1	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Y	TE Connectivity	4-1437565-1	1	100	Digi-Key	450-1129-ND				506-FSM4JSMA
58	SH-J4, SH-J5, SH-J6	Shunt, 100mil, Gold plated, Black	Y	3M	969102-0000-DA	3	300	Digi-Key	3M9580-ND	Mouser	517-9691020000DA	Samtec	SNT-100-BK-G
59	T1	Transformer, 325 uH, SMT	Y	Pulse Engineering	HX5008NL	1	100	Digi-key	553-1344-ND	Mouser	673-HX5008NL		
60	U1	Robust, Low Power 10/100/1000 Ethernet Physical Layer Transceiver, RGZ0048B		Texas Instruments	DP83867RGZR	1	100					Texas Instruments	DP83867RGZT
61	U2	OSC, 25 MHz, 1.6 to 3.6 V, SMD	Y	Epson	SG-210STF25.000000MHZY	1	100						
62	U3, U4	1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A	Y	Texas Instruments	TPD4E05U06DQAR	2	200					Texas Instruments	
63	U5	Single Output High PSRR LDO, 500 mA, Adjustable 1.25 to 6 V Output, 2.7 to 6.5 V Input, with Low IQ, 6-pin SON (DRV), -40 to 125 degC, Green (RoHS & no Sb/Br)		Texas Instruments	TPS73501DRVR	1	100	Digi-Key	296-34785-2-ND	Digi-Key	296-34785-1-ND	None	Equivalent
64	U6	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	1	100	Digi-Key	296-22987-2-ND	Digi-Key	296-22987-1-ND	None	Equivalent
65	XTAL1	Crystal, 25 MHz, 18 pF, SMD	Y	Abracon Corportation	ABM3-25.000MHZ-D2W-T	1	100						

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