Filename: TIDA-00290-BOM-Motherboard-PWR612A.xls

| Hilliam | Hill

TPS23861EVM-612 (TIDA-00290 Motherboard)

			_					
	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
!PCBA?	1		Update Description to match PCBA's description	N/A	PWR612A	Any		
C1, C8,	4	0.01uF	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	0603	06031C103KAT2A	AVX		
C11, C12								
C2, C5	2	1uF	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0805	0805	0805ZC105KAT2A	AVX		
C3, C7	2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805	C2012X7R2A104K	TDK		
C4	1	1uF	CAP, CERM, 1uF, 100V, +/-10%, X7R, 1206	1206	GRM31CR72A105KA01	MuRata		
					L			
C6	1	22uF	CAP, CERM, 22uF, 10V, +/-10%, X7R, 1206	1206	GRM31CR71A226KE15	MuRata		
					L			
C9, C10,	4	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	06035C104KAT2A	AVX		
C13, C14								
C15, C16	2	47uF	CAP, AL, 47uF, 100V, +/-20%, 0.32 ohm, SMD	SMT Radial H13	EEV-FK2A470Q	Panasonic		
C17, C18	2	2200pF	CAP, CERM, 2200pF, 2000V, +/-10%, X7R, 1812	1812	C4532X7R3D222K	TDK		
D1	1	Green	LED, Green, SMD	Power TOPLED	LT E63C-CADB-35-L-Z	OSRAM		
				w/lens				
D2	1	58V	Diode, TVS, Uni, 58V, 600W, SMB	SMC	SMCJ58A-13-F	Diodes Inc.		İ
D3	1	100V	Diode, Ultrafast, 100V, 1A, SMA	SMA	MURA110T3G	ON Semiconductor		
D4, D5, D6,	8	22V	Diode, Zener, 22V, 550mW, SMB	SMB	1SMB5933BT3G	ON Semiconductor		
D7, D8, D9,								
D10, D11								
D12, D13,	6	Blue	LED, Blue, SMD	BLUE 0603 LED	LB Q39G-L2N2-35-1	OSRAM		
D14, D16,	·	Dido	EED, Dide, OND	DEGE GOOG EED	LD 0000 L2112 00 1	0010 1101		
D17, D18								
H1, H2, H3,	9		Bumpon, Cylindrical, 0.312 X 0.200, Black	Black Bumpon	SJ61A1	3M		
H4, H5, H6,	9		Bumpon, Cylinarical, 0.012 A 0.200, Black	Diack Dumpon	000171	O.V.		
H7, H8, H9								
J1	1		TERMINAL BLOCK 5.08MM VERT 2POS	TEDM DIV 2000	ED120/2DS	On-Shore Technology Inc		
JI	'		TERIVINAL DEOUR S.UGIVIIVI VEKT ZPUS	TERM_BLK, 2pos,	ED 120/2D3	On-Shore Technology, Inc.		
10	- 4		Header (shrouded), 100mil, 5x2, High-Temperature,	5.08mm	NOE10 6000 DD	2M		
J2	1			5x2 Shrouded header	1N-000Z-KB	ЗМ		1
10 14 10	-		Gold, TH	LIEADED	0000 440 04 0 0	Oraște de la c		
J3, J4, J6,	5		Connector, Receptacle, 100mil, 10x1, Gold plated, TH	HEADER,	SSW-110-01-G-S	Samtec, Inc.		
J17, J18				RECEPTACLE,				
				100mil, 10x1				
J5	1		Receptacle 100mil 3x1, Gold, TH	Receptacle, 100mil,	SSW-103-01-G-S	Samtec, Inc.		
				3x1				
J7, J8, J9,	6		RJ-45 with integrated magnetics	RJ-45 Jack	JK0-0177NL	Pulse Engineering	7499511611 or 7499511611A	Wurth Elektronik
J19, J20,								
J21								
J10, J11,	6		RJ-45, Vertical, TH	RJ-45 Jack, 8Pos	SS-7188V-A-NF	Stewart Connector		
J12, J22,				Right Angle				
J23, J24								
J13, J14,	8		Header, TH, 100mil, 2x1, Gold plated, 230 mil above	TSW-102-07-G-S	TSW-102-07-G-S	Samtec, Inc.		
J15, J16,			insulator					
J25, J26,								
J27, J28								
J29	1	15A	Terminal screw, vertical, snap-in	7693	7693	Keystone		İ
L1	1	82uH	Inductor, Drum Core, Ferrite, 82uH, 0.78A, 0.37 ohm,	SDR0805	SDR0805-820KL	Bourns	744787820	Wurth Elektronik
		02411	SMD	05110000	02110000 020112			
R1	1	200k	RES, 200k ohm, 1%, 0.1W, 0603	0603	CRCW0603200KFKEA	Vishay-Dale		
R2	1	1.00	RES, 1.00 ohm, 1%, 0.25W, 1206	1206	CRCW12061R00FKEA	Vishay-Dale		
R3	1	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	0603	CRCW06031K00FKEA	Vishay-Dale		
R4	1	100k	RES, 100k ohm, 1%, 0.1W, 0603	0603	CRCW0603100KFKEA	Vishay-Dale		
R5	1	47k	RES, 47k ohm, 5%, 0.1W, 0603	0603	CRCW060347K0JNEA	Vishay-Dale Vishay-Dale		
R6	1	3.16k	RES, 3.16k ohm, 1%, 0.1W, 0603	0603	CRCW06034710511EA	Vishay-Dale Vishay-Dale		
R7, R8, R9,	5	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW06033K16FKEA	Vishay-Dale Vishay-Dale		
R11, R12	J	10.00	11.LO, 10.0K OHIII, 170, 0.144, 0003	0000	ONOWOOD TONOFINEA	ay Daio		
R11, R12	2	4.7k	RES, 4.7k ohm, 5%, 0.1W, 0603	0603	CRCW06034K70JNEA	Vishay-Dale		
	8			1206	CRCW12067K50FKEA			
R14, R15,	ď	7.50k	RES, 7.50k ohm, 1%, 0.25W, 1206	1200	CROW IZUO/KSUFKEA	Vishay-Dale		
R16, R17,								
R20, R21,								
R22, R23		1x2	Shunt, 100mil, Flash Gold, Black		0000001444	 		
SH-J1, SH-								
	8	172	Shuffi, 100mii, Flash Gold, Black	Closed Top 100mil	SPC02SYAN	Sullins Connector Solutions		
J2, SH-J3,	8	172	Shurit, Toomii, Flash Gold, Black	Shunt	SPC02SYAN	Sullins Connector Solutions		
J2, SH-J3, SH-J4, SH-	8	1,42	Shunt, Tournii, Plasti Gold, Black		SPC02SYAN	Sullins Connector Solutions		
J2, SH-J3, SH-J4, SH- J5, SH-J6,	8	TAZ	Shurit, Tournii, Plash Guid, Black		SPC02SYAN	Sullins Connector Solutions		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH-	8	172	Shurit, Tourilli, Plash Gold, Black		SPC02SYAN	Sullins Connector Solutions		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8				Shunt				
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2	2	Red	Test Point, Multipurpose, Red, TH	Shunt Keystone5010	5010	Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11,				Shunt Keystone5010 Testpoint_Keystone_				
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14,	2	Red	Test Point, Multipurpose, Red, TH	Shunt Keystone5010	5010	Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16	2 5	Red SMT	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT	Shunt Keystone5010 Testpoint_Keystone_ Compact	5010 5016	Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5,	2	Red	Test Point, Multipurpose, Red, TH	Shunt Keystone5010 Testpoint_Keystone_	5010	Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7,	2 5	Red SMT	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT	Shunt Keystone5010 Testpoint_Keystone_ Compact	5010 5016	Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8	2 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH	Keystone5010 Testpoint_Keystone_ Compact Keystone5012	5010 5016 5012	Keystone Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8	2 5	Red SMT	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH	Shunt Keystone5010 Testpoint_Keystone_Compact Keystone5012 Keystone5011	5010 5016 5012 5011	Keystone Keystone Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8	2 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH	Keystone5010 Testpoint_Keystone_ Compact Keystone5012	5010 5016 5012	Keystone Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8	2 5 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (BoV) Step Down Switching Regulator, 8-pin MSOP, Pb-Free	Keystone5010 Testpoint_Keystone_ Compact Keystone5012 Keystone5011 MUA08A	5010 5016 5012 5011 LM5007MM/NOPB	Keystone Keystone Keystone Keystone		
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8	2 5 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V /	Shunt Keystone5010 Testpoint_Keystone_Compact Keystone5012 Keystone5011	5010 5016 5012 5011	Keystone Keystone Keystone Keystone	Equivalent	None
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1	2 5 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (BoV) Step Down Switching Regulator, 8-pin MSOP, Pb-Free	Keystone5010 Testpoint_Keystone_ Compact Keystone5012 Keystone5011 MUA08A	5010 5016 5012 5011 LM5007MM/NOPB	Keystone Keystone Keystone Keystone National Semiconductor	Equivalent	None
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1	2 5 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V /	Keystone5010 Testpoint_Keystone_ Compact Keystone5012 Keystone5011 MUA08A	5010 5016 5012 5011 LM5007MM/NOPB	Keystone Keystone Keystone Keystone National Semiconductor	Equivalent	None
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1 U2, U4	2 5 5 1 1	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br)	Keystone5010 Testpoint_Keystone_ Compact Keystone5012 Keystone5011 MUA08A DW0016A	5010 5016 5012 5011 LM5007MM/NOPB ISO7241CDW	Keystone Keystone Keystone Keystone National Semiconductor	Equivalent	
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1	2 5 5	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br) SINGLE BUFFER/DRIVER WITH OPEN-DRAIN	Keystone5010 Testpoint_Keystone_ Compact Keystone5012 Keystone5011 MUA08A	5010 5016 5012 5011 LM5007MM/NOPB	Keystone Keystone Keystone Keystone National Semiconductor Texas Instruments	Equivalent	None
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1 U2, U4	2 5 5 1 1 2	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br) SINGLE BUFFER/DRIVER WITH OPEN-DRAIN OUTPUT, DCK0005A	Shunt Keystone5010 Testpoint_Keystone_Compact Keystone5012 Keystone5011 MUA08A DW0016A DCK0005A	5010 5016 5012 5011 LM5007MM/NOPB ISO7241CDW	Keystone Keystone Keystone Keystone National Semiconductor Texas Instruments Texas Instruments	Equivalent	
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1 U2, U4 U3 PWR613	2 5 5 1 1 2	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br) SINGLE BUFFER/DRIVER WITH OPEN-DRAIN OUTPUT, DCK0005A TPS23861EVM-613 Daughter Board	Keystone5010 Testpoint_Keystone_Compact Keystone5012 Keystone5011 MUA08A DW0016A DCK0005A PWR613	5010 5016 5012 5011 LM5007MM/NOPB ISO7241CDW SN74LVC1G07DCK PWR613	Keystone Keystone Keystone National Semiconductor Texas Instruments Texas Instruments	Equivalent	
J2, SH-J3, SH-J4, SH- J5, SH-J6, SH-J7, SH- J8 TP1, TP2 TP3, TP11, TP14, TP15, TP16 TP4, TP5, TP6, TP7, TP8 TP9 U1 U2, U4 U3	2 5 5 1 1 2	Red SMT White	Test Point, Multipurpose, Red, TH Test Point, Compact, SMT Test Point, Multipurpose, White, TH Test Point, Multipurpose, Black, TH High Voltage (80V) Step Down Switching Regulator, 8-pin MSOP, Pb-Free 25 Mbps Quad Channels, 3 / 1, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 16-pin SOIC (DW), Green (RoHS & no Sb/Br) SINGLE BUFFER/DRIVER WITH OPEN-DRAIN OUTPUT, DCK0005A	Shunt Keystone5010 Testpoint_Keystone_Compact Keystone5012 Keystone5011 MUA08A DW0016A DCK0005A	5010 5016 5012 5011 LM5007MM/NOPB ISO7241CDW SN74LVC1G07DCK PWR613	Keystone Keystone Keystone Keystone National Semiconductor Texas Instruments Texas Instruments	Equivalent	

Notes:

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