

TIPD216 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIPD215	Any	Printed Circuit Board	1
C1, C2, C3, C4,	13	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 μF, 50 V, +/- 10%, X7R, 1210	1210
C15, C16, C21,						
C22, C23, C24,						
C35, C36, C68						
C5, C6, C7, C8,	14	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C25, C26, C27,						
C28, C41, C44,						
C56, C57, C66,						
C67						
C9, C10, C11,	29	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0603	0603
C12, C13, C14,				1, 5	, , ,	
C17, C18, C19,						
C20, C29, C30,						
C31, C32, C33,						
C34, C37, C38,						
C39, C40, C42,						
C52, C53, C54,						
C55, C62, C63,						
C64, C65						
		200pF	GRM1885C1H201JA01D	MuData	CAP, CERM, 200pF, 50V, +/-5%, C0G/NP0, 0603	0603
C43	4	200pF	GRIM 1885C TH20 TJAOTD	MuRata	CAP, CERM, 200pF, 50V, +/-5%, CUG/NPU, 0603	
C50, C51, C60, C61	4					0603
C58, C59, C69,	4	0.22uF	C1608X7R1H224K080AB	TDK	CAP, CERM, 0.22 μF, 50 V, +/- 10%, X7R, 0603	0603
C70						
D1, D2, D3, D4,	8	60V	MBRX160-TP	Micro Commercial Componer	nt Diode, Schottky, 60V, 1A, SOD-123	SOD-123
D9, D10, D11,						
D12						
D5, D6, D7, D8,	12	36V	CDSOD323-T36SC	Bourns	Diode, TVS, Bi, 36V, 400W, SOD323, 2-Leads, Body 1.9x1.45mm, No	SOD323, 2-Leads,
D13, D14, D15,					Polarity Mark	Body 1.9x1.45mm, No
D16, D19, D20,						Polarity Mark
D23, D24						
D17, D18, D21,	4	75V	BAV99-7-F	Diodes Inc.	Diode, Switching, 75V, 0.3A, SOT-23	SOT-23
D22						
FB9, FB10, FB11,	4	600 ohm	FBMH3225HM601NT	Taiyo Yuden	Ferrite Bead, 600 ohm @ 100 MHz, 3 A, 1210	1210
FB12				, i		
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J1, J2, J4, J5, J6	5		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J3	1		851-43-010-20-001000	Mill-Max	Receptacle, 50mil 10x1, R/A, TH	receptacle 10x1, 50mil
L1, L2, L3, L4	4	100uH	74408943101	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 100 µH, 0.52 A, 0.77 ohm, SMD	4.8x3.8x4.8mm
R1, R2, R3, R4,	16	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
R5, R6, R7, R8,	, ,	. 3.0	5.15.1000010101112/1	Tierray Bailo	, 170, 01111, 0000	3330
R30, R31, R32,						
R33, R34, R35,						
R36, R37						
R10	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
	1					
R14	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10k ohm, 5%, 0.1W, 0603	0603

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R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28	12	15	CRCW060315R0JNEA	Vishay-Dale	RES, 15 ohm, 5%, 0.1W, 0603	0603
U1	1		DAC8775IRWFR		Quad-Channel, 16-Bit Programmable Current Output and Voltage Output Digital-to-Analog Converter with Adaptive Power Management, RMP0072A	RMP0072A

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