

T41 V010 BOM

Board	Reference Description	Value	Footprint	Qty	Note	Digikey
Exciter	C1, C10, C15, C20, C21, C23, C24, C25, C26, C27, C29, C30, C31, C32	0.1uF	1206	14		
Exciter	C2, C4, C6, C7, C12, C14, C16, C17, C22, C28	10uF	TH	10		
Exciter	C3, C11, C33, C34	100pF	1206	4		
Exciter	C5, C9, C13, C19	0.0022uF	1206	4		
Exciter	C8, C18	1nF	1206	2		
Exciter	J1	IDC16M	IDC16M	1		
Exciter	J2		PJ-324	1	1/8" Phone Jack	
Exciter	J3, J4	SMA	SMA	2		
Exciter	J5	HDR-1x2H	2.54 Header	1		
Exciter	JP1	Jumper		1		
Exciter	L1, L2, L3, L4		1206	4	Ferrite Bead	
Exciter	Q1	2N3904	SOT23	1	Q101 on PCB	
Exciter	R1, R6, R9, R16	49.9	1206	4		
Exciter	R19	5.5K	1206	1		
Exciter	R2, R3, R5, R11, R12, R15	10K	1206	6		
Exciter	R4, R13	10K	1206	2		
Exciter	R7, R14, R17, R18	2.2K	1206	4		
Exciter	R8, R10	4.7K	1206	2		
Exciter	T1	0553-0013-BC-F	Toroid	1	0553-0013-BC-F	
Exciter	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13	Testpoint	2.54 Header	13		
Exciter	U1, U2	MC33078YDT	SOIC-8	2		
Exciter	U3	74CBTLV3253PWRE4	TSSOP-16	1		
Exciter	U4	74AC74MTC	TSSOP-14	1		
Filter	C1, C4	56pF	1206	2	500V	
Filter	C13, C16	180pF	1206	2	500V	
Filter	C14, C15	390pF	1206	2	500V	
Filter	C2, C3	150pF	1206	2	500V	
Filter	C201	56pF	1206	1		
Filter	C202	130pF	1206	1		
Filter	C21, C24	270pF	1206	2	500V	
Filter	C22, C23	680pF	1206	2	500V	
Filter	C28, C31	470pF	1206	2	500V	
Filter	C29, C30	1200pF	1206	2	500V	
Filter	C38, C40	1800pF	1206	2		
Filter	C39	520pF	1206	1		
Filter	C5, C6, C11, C12, C17, C18, C19, C20, C26, C27, C100	0.1uF	1206	11		
Filter	C7, C10	82pF	1206	2	500V	
Filter	C8, C9	220pF	1206	2	500V	
Filter	D1, D2, D3, D4, D5	1N4148	TH	5	Si 100V	
Filter	J2, J6, J9	SMA	SMA	3		
Filter	J3	IDC16M	IDC16M	1		
Filter	K1, K2, K3, K4, K5	RELAY3_DPD		5		
Filter	L1, L2, L3, L4, L5, L6, L7, L8, L9, L11, L12, L13	T37-6	Toroid	12		

T41 V010 BOM

Filter	L14, L15, L16, L24, L25	T68-2	Toroid	5	
Filter	Q1, Q2, Q3, Q4, Q5	BS170	TO-92	5	
Filter	R1, R2, R3, R4, R5	6.8K	1206	5	
Front	C1, C2	0.1uF	1206	2	
Front	R1	200	1206	1	
Front	R17	10K	1206	1	
Front	R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16	100	1206	15	
Front	S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16	B3F-1000	B3F-1000	16	SW400-ND
Main	Bands..., Display1, Encoders, Encoders1	IDC2x5_Male	IDC2x5M	4	
Main	C1, C3, C9	10uF	CAPAE-6.6x6.6h5.4	3	
Main	C10	0.001uF	1206	1	
Main	C100, C106	10uF	CAPAE-4.3x4.3h5.4	2	
Main	C102, C301	100uF	CAPAE-4.3x4.3h5.4	2	
Main	C103, C207, C302, C303	0.1uF	1206	4	
Main	C105	220uF	CAPAE-6.6x6.6h5.4	1	
Main	C2, C4, C5, C8	0.1uF	1206	4	
Main	C201, C202	0.01uF	1206	2	
Main	C305	0.22uF	1206	1	
Main	C6	1uF	1206	1	
Main	CLK1, CLK2	SMA	SMA	2	
Main	Display, Tune/Filter1, Volume	IDC2x5_Cable		3	
Main	Ex_Out, Mic_in, Rec_In		PJ-324	3	1/8" Phone Jack
Main	Filter, FineTune, Tune, Volume1	Encoder		3	
Main	L100, L301		1206	2	IND_FERRITE_BEAD
Main	PA	TDA7266M	TDA7266M	1	U4 on PCB
Main	Power Connector	IDC16M	IDC16M	1	
Main	Q1	BS170	TO-92	1	
Main	Q101, Q102	2N2222A	SOT23	2	
Main	R1	100K	1206	1	
Main	R101		1206	1	
Main	R104		1206	1	
Main	R105		1206	1	
Main	R108		1206	1	
Main	R110		1206	1	
Main	R2, R3, R7, R100		1206	4	
Main	R201, R202		1206	2	
Main	R301, R302		1206	2	
Main	R303	10K		1	
Main	R8, R9, R10		1206	3	
Main	Teensy Audio Adapter		Daughter	1	Version D
Main	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	Testpoint	2.54 Header	8	
Main	U4	Teensy4.1	Daughter	1	Teensy on PCB
Main	U5	PCM5102	Daughter	1	DAC2 on PCB
Main	U6-2	Si5351A	MSOP-10	1	

T41 V010 BOM

Main	U7	PCM1808	Daughter	1	ACD2 on PCB
Main	U9	74HC125	SOIC-14	1	U5 on PCB
Main	USBHost	IDC 2x5	IDC2x5M	1	
Main	Y2	25MHz		1	Y1 on PCB
	C1, C2, C3, C5,C6, C7, C8, C9, C10, C24, C101, C102, C104, C105, C107, C108, C109, C110, C111, C112, C201, C202, C204, C206, C208, C209, C300, C302	0.1uF	1206	28	
PA	C103, C106, C203, C207	0.47uF	1206	4	
PA	C11	10uF	CAPAE-6.6x6.6h5.4	1	
PA	C205	33pF	1206	1	
PA	C301	100uF	CAPAE-6.6x6.6h5.4	1	
PA	C4	390pF	1206	1	
PA	D301, D302, D303, D304, D305, D306, D307, D308, D309	1N4148	TH	9	
PA	J1, J3	SMA	SMA	2	
PA	J7			2	Power connector
PA	J4, J6	HDR-1x2H	2.54 Header	2	
PA	J2	1x3 Header	2.54 Header	1	
PA	L1	0.18uH	1206	1	
PA	L102, L104, L202, L203	0.33uH	1206	4	
PA	L2, L101, L103, L201, L204	2.2uH	1206	5	L2 is TH on PCB
PA	Q1, Q2, Q3, Q5	2N3904	TO-92	4	
PA	Q101, Q102, Q201, Q202	IRF510	TO-220	4	
PA	Q301	TIP127	TO-220	1	
PA	Q303	IRFU9024	TO-220	1	
PA	Q4, Q302	2N3906	TO-92	2	
PA	R1	4.7K	1206	1	
PA	R10	680	1206	1	
PA	R100, R102, R200, R203	10K	3252W	4	Trim Pot
PA	R101, R103	100	1206	2	
PA	R106, R107	1.1K	1206	2	
PA	R11, R13	24K	1206	2	
PA	R12, R15, R301, R302	10K	1206	4	
PA	R14	48	1206	1	
PA	R17	37	1206	1	
PA	R19	5.5K	1206	1	
PA	R2	5.1K	1206	1	
PA	R201, R204	56	1206	2	
PA	R202, R205	240	TH	2	1W
PA	R3	200	1206	1	
PA	R300	0.167	TH	1	6x 1ohm parallel
PA	R303	470	1206	1	

T41 V010 BOM

PA	R306	220	1206	1	
PA	R4, R16, R304	150	1206	3	
PA	R5	3.3K	1206	1	
PA	R6	5.6K	1206	1	
PA	R7	1.2K	1206	1	
PA	R8	200	3252W	1	Trim Pot
PA	R9	3K	1206	1	
PA	T1	BN43-202	Toroid	1	
PA	T2	FT50-43	Toroid	1	
PA	T3	BN43-202	Toroid	1	
PA	T4	FT50-43	Toroid	2	2x together
PA	T5	BN-43-3312	Toroid	1	
PA	U1	LM7815CT	TO-220	1	
PA	U2	LM317T	TO-220	1	
Power	C1, C2, C3	10uF	TH	3	
Power	C4, C5, C6	0.1uF	1206	3	50V
Power	D1	10V Zener	TH	1	
Power	Heat Sinks		TO-220	2	Electronics-Salon 4X TO-220 Heatsink SKU: HS-001-4
Power	J1	IDC16M	IDC16M	1	
Power	Power Connector			1	OIIKI 2-pin 5.08 Pitch PCB Mount Screw Terminal Block, Straight Plug-in
Power	Q1	FQP47p06	TO-220	1	MOSFET_ENH_P
Power	R1	100K	1206	1	
Power	U1	LM1117-33	TO-220	1	
Power	U2	LM7805	TO-220	1	
QSD	C1, C2, C3, C4, C6, C8, C10, C104, C202, C212, C302, C303	0.1uF	1206	12	
QSD	C203, C207, C210, C211	10nF	1206	4	
QSD	C204, C205, C206, C208	1uF	1206	4	
QSD	C304, C306, C308, C309	68pF	1206	4	
QSD	C5, C7, C9, C305, C307, C310, C311	10uF	TH	7	
QSD	J1, J2	SMA	SMA	2	
QSD	J4		PJ-324	1	1/8" Phone Jack
QSD	J5	IDC16M	IDC16M	1	
QSD	L1, L2, L3, L4, L5		1206	5	Ferrite Bead
QSD	Q1, Q2	2N3904	SOT23	2	
QSD	R1	390pF	1206	1	
QSD	R2	5.6K	1206	1	
QSD	R201, R202, R206, R207	100	1206	4	
QSD	R203, R208	2K	1206	2	
QSD	R204, R205, R209, R210	10K	1206	4	
QSD	R3	510	1206	1	
QSD	R301, R302, R303, R304, R305, R306, R307, R308	5.1K	1206	5	
QSD	R4	68	1206	1	

T41 V010 BOM					
QSD	R5	200	1206		1
QSD	T1	T43-50	Toroid		1
QSD	TP1, TP6, TP7	Testpoint	2.54 Header		3
QSD	U2	MC33078BYDT	SOIC-8		1
QSD	U3	MC33078YDT	SOIC-8		1
QSD	U4	74CBTLV3253PWRE4	TSSOP-16		1
QSD	U5	74AC74MTC	TSSOP-14		1