

Bill of Materials

TI DESIGNS

TIDC-WMBUS-160MPZ

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
U1	1	CC1120	CC1120	TI Transceiver	TI	#NA	#NA	#NA	#NA
C302	1	C_0402	Capacitor, general, 0402, Do not mount						
C177	1	C_1P2_0402_NP0_B_50	Capacitor, 1p2, 0402, NP0, +/-0.1pF, 50V	Capacitor	Murata	GRM1555C1H1R2B201D		0402	
C321	1	C_100N_0402_X5R_K_10	Do not mount	Capacitor				0402	
C172;C173	2	C_100P_0402_NP0_J_50	Capacitor, 100p, 0402, NP0, 5% 50V	Capacitor	Murata	GRM1555C1H101J201D		0402	
C171;C211	2	C_10N_0402_X7R_K_25	Capacitor, 10n, 0402, X7R, 10%, 25V	Capacitor	Murata	GRM155R71E103KA01D		0402	
C2	1	C_1210	Capacitor, general, 1210	Capacitor					
C174	1	C_82P_0402_NP0_J_50	Capacitor, 82p, 0402, NP0, 5% 50V	Capacitor	Murata	GRM1555C1H820J201D		0402	
C301;C311;C175	3	C_15P_0402_NP0_J_50	Capacitor, 15p, 0402, NP0, 5% 50V	Capacitor	Murata	GRM1555C1H150JA01D		0402	
C231	1	C_1N8_0402_U2J_J_10	Capacitor, 1n8, 0402, U2J, 5%, 10V	Capacitor	Murata	GRM1557U1A182JA01D		0402	
C61	1	C_220N_0402_X5R_K_10	Capacitor, 220n, 0402, X5R, 10%, 10V	Capacitor	Murata	GRM155R61A224KE19D		0402	
C322	1	C_22P_0402_NP0_J_50	Do not mount	Capacitor	Murata	GRM1555C1H220J201D		0402	
C201; C191; C181	3	C_12P_0402_NP0_J_50	Capacitor, 12p, 0402, NP0, 5%, 50V	Capacitor	Murata	GRM1555C1H120JA01D		0402	
C10;C13	2	C_2U2_0402_X5R_M_6P3VDC	Capacitor, 2u2, 0402, X5R, +/-20%, 6.3V	Capacitor				0402	
C176	1	C_12P_0402_NP0_J_50	Capacitor, 12p, 0402, NP0, 5%, 50V	Capacitor	Murata	GRM1555C1H120JA01D		0402	
C11;C51;C121;C131;C151;C221;C251;C261;C271;C281;C291:	11	C_47N_0402_X7R_K_25	Capacitor, 47n, 0402, X7R, 10%, 25V	Capacitor	Murata	GRM155R71E473KA88D		0402	
L192;L201	2	L_82N_0402_J_LOW	Inductor, 82n, 0402, +/-5%, wire-wound type	Inductor	Murata	LOW15AN82NJ00		0402	
L174	1	L_68N_0402_J_LOW	Inductor, 68n, 0402, +/-5%, wire-wound type	Inductor	Murata	LOW15AN68NJ00		0402	
L172	1	L_18N_0402_J_LOW	Inductor, 18n, 0402, +/-5%, wire-wound type	Inductor	Murata	LOW15AN18NJ00		0402	
L191	1	L_150N_0402_J	Inductor, 150n, 0402, +/-5%	Inductor	Murata	LOG15HSR15J02		0402	
L193	1	L_39N_0402_J_LOW	Inductor, 39n, 0402, +/-5%, wire-wound type	Inductor	Murata	LOW15AN39NJ00		0402	
L173	1	L_100N_0402_J_LOW	Inductor, 100n, 0402, +/-5%, wire-wound type	Inductor	Murata	LOW15ANR10J00		0402	
L3	1	L_2U2_0805_N_LOWM21	Inductor, 2u2, 0805, +/-30%	Inductor	Murata	LOK21PNR2NGC		0805	
L171	1	L_220N_0402_J	Inductor, 220n, 0402, +/-5%	Inductor	Murata	LOG15HSR22J02		0402	
L2	1	L_BEAD_102_0402	EM filter bead, 0402 1k ohms Tape GHz Band Gen Use	Filter bead	Murata	BLM15HG102SN1D		0402	
R1;R321	2	R_0402	Resistor, general, 0402, Do not mount	Resistor				0402	
R12 (edited manually)	1	R_0_0402	Resistor, 0 ohm, 0402	Resistor	Koa	RK73Z1ETTP		0402	
R322	1	R_0_0402	Do not mount	Resistor				0402	
R2	1	R_0_0402	Resistor, 0 ohm, 0402	Resistor	Koa	RK73Z1ETTP		0402	
R171	1	R_22_0402_J	Resistor, 22 ohms, 0402, 5%	Resistor	Koa	RK73H1ETTP22R0F (+/-1%)		0402	
R141	1	R_56K_0402_F	Resistor, 56k ohms, 0402, +/-1%	Resistor	Koa	RK73H1ETTP56Z2F		0402	
P3	1	SMA_SMD	SMA connector, straight SMD-mount	Connector	Hus-Tean Group Taiwan	SMA-10V21-1GG			
P1-2	2	SMD_SOCKET_2X10	SMD pinrow socket, .050 spacing, 2x10	Connector	Samtec	SFM-110-02-SM-D-A-K-TR			
X2	1	TG_5021CG	Do not mount	TXCO	Epson Toyocom	TG_5021CG			
U3	1	TPS62730	Step Down Converter with Bypass Mode	TI DC/DC converter	TI	TPS62730DRY			
X1	1	X_32.000/10/20/60/10	Crystal, 32.000000MHz, FA-128, 10.0pF, +/-10ppm, (FTC: +/-20ppm at -40/85C), 60ohms	XTAL	NDK, Epson				

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