

MMDVM_HS_Dual_Hat双工板 V1.3 BOM

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Refs	Value	Footprint	Quantity	MFR	MPN	SPR	SPN
SW1	NO	Buttons_Switches_SMD:SW_SPST_B3U-1000P	1	Omron Electronics	B3U-1000P	Mouser	653-B3U-1000P
C43;C44;C45;C46;C50;C36;C20;C14;C30;C35;C19;C13;C29	100n	Capacitors_SMD:C_0603	13	Vishay / Vitramon	VJ0402V104ZXJCW1BC	Mouser	77-VJ0402V104ZXJCBC
C49;C39;C16;C18;C4;C32;C42;C38;C15;C17;C3;C31	10n	Capacitors_SMD:C_0603	12	Vishay / Vitramon	VJ0402Y103KXJCW1BC	Mouser	77-VJ0402Y103KXJCBC
C9;C6	10p	Capacitors_SMD:C_0603	2	Murata Electronics	GRM1555C1E100GA01D	Mouser	81-GRM1555C1E100GA1D
C52	10u	Capacitors_SMD:C_0603	1	Murata Electronics	GRM155C80J106ME11J	Mouser	81-GRM155C80J106ME1J
C26;C25	15n	Capacitors_SMD:C_0603	2	Murata Electronics	GRM155R71C153KA01J	Mouser	81-GRM155R71C153KA1J
C28;C27	1n	Capacitors_SMD:C_0603	2	Murata Electronics	GRM155R60J102KA01D	Mouser	81-GRM155R60J102KA1D
C40;C41	20p	Capacitors_SMD:C_0603	2	Murata Electronics	GJM1555C1H200FB01D	Mouser	81-GJM1555C1H200FB1D
C8;C5	220p	Capacitors_SMD:C_0603	2	Murata Electronics	GRM1555C1H221JA01D	Mouser	81-GRM1555C1H221JA01
C24;C23	22n	Capacitors_SMD:C_0603	2	Murata Electronics	GCM155R71E223KA55D	Mouser	81-GCM155R71E223KA5D
C34;C33	22p	Capacitors_SMD:C_0603	2	AVX	04025A220GAT2A	Mouser	581-04025A220G
C22;C21	470p	Capacitors_SMD:C_0603	2	Murata Electronics	GCM1555C1H471JA16J	Mouser	81-GCM1555C1H471JA6J
C48;C47	47p	Capacitors_SMD:C_0603	2	Murata Electronics	GRM1555C1H470FA01D	Mouser	81-GRM1555C1H470FA1D
C10;C7	4p7	Capacitors_SMD:C_0603	2	Murata Electronics	GRM1555C1H4R7CA01D	Mouser	81-GRM1555C1H4R7CA1D
C12;C2;C11;C1	6p8	Capacitors_SMD:C_0603	4	Murata Electronics	GJM1555C1H6R8BB01D	Mouser	81-GJM1555C1H6R8BB1D
C51	10u/10V	Capacitors_Tantalum_SMD:CP_Tantalum_Case-A_EIA-3216-18_Reflow	1	AVX	TPSA106K010T0900	Mouser	581-TPSA106K010T0900
P2;P1	SMA	Connectors:SMA_THT_Jack_Straight	2	TE Connectivity	5-1814832-1	Mouser	571-5-1814832-1
W1;W2	TEST_1P	Connectors_TestPoints:Test_Point_Pad_1.0x1.0mm	2				
X1	TCXO	Crystals:Crystal_SMD_50324pin_5.0x3.2mm	1	ECS	ECS-TXO-5032-147.4-TR	Mouser	520-TXO-5032-14.74T
Y1	8MHz	Crystals:Crystal_SMD_Abracon_ABM3-2pin_5.0x3.2mm	1	ABRACON	ABM3-8.000MHz-D2Y-T	Mouser	815-ABM3-8-D2Y-T
U1;U2	ADF7021	Housings_DFN_QFN:QFN-48-1EP_7x7mm_Pitch0.5mm	2	Analog Devices	ADF7021BCPZ	Mouser	584-ADF7021BCPZ
U3	STM32F103C8T6	Housings_QFP:LQFP-48_7x7mm_Pitch0.5mm	1	STMicroelectronics	STM32F103C8T6	Mouser	511-STM32F103C8T6
L9	100MHz	Inductors_SMD:L_0603	1	Würth Electronics	74279277	Mouser	710-74279277
L10	10u	Inductors_SMD:L_0603	1	Würth Electronics	74279277	Mouser	710-74279277

L8;L7	13n	Inductors_SMD:L_0603	2	Murata Electronics	LQW15AN13NG80D	Mouser	81-LQW15AN13NG80D
L12;L11	18n	Inductors_SMD:L_0603	2	TE Connectivity / Sigma Inductors	36501E18NJTDG	Mouser	279-36501E18NJTDG
L4;L3	20n	Inductors_SMD:L_0603	2	TE Connectivity / Sigma Inductors	36501E20NJTDG	Mouser	279-36501E20NJTDG
L2;L1	22n	Inductors_SMD:L_0603	2	Murata Electronics	LQW15CA22NJ00D	Mouser	81-LQW15CA22NJ00D
L6;L5	27n	Inductors_SMD:L_0402	2	Murata Electronics	LQW15AN27NG80D	Mouser	81-LQW15AN27NG80D
JP1	SolderJumper_2_Open	Jumper:SolderJumper-2_P1.3mm_Open_TrianglePad1.0x1.5mm	1				
D6	amber	LEDs:LED_0603	1	Kingbright	APHHS1005SECK	Mouser	604-APHHS1005SECK
D8	blue	LEDs:LED_0603	1	Kingbright	APHHS1005QBC/D	Mouser	604-APHHS1005QBCD
D1;D4	green	LEDs:LED_0603	2	Kingbright	APHHS1005CGCK	Mouser	604-APHHS1005CGCK
D3;D7;D0	red	LEDs:LED_0603	3	Kingbright	APHHS1005SURCK	Mouser	604-APHHS1005SURCK
D2;D5	yellow	LEDs:LED_0603	2	Kingbright	APHHS1005SYCK	Mouser	604-APHHS1005SYCK
P8	USB_OTG	MMDVM:USB-mini-710-65100516121	1	Würth Electronics	65100516121	Mouser	710-65100516121
P4	DISPLAY	Pin_Headers:Pin_Header_Straight_1x04	1	TE Connectivity / AMP	826629-4	Mouser	571-826629-4
P3	I2C	Pin_Headers:Pin_Header_Straight_1x04	1	TE Connectivity / AMP	826629-4	Mouser	571-826629-4
P5	STLINK	Pin_Headers:Pin_Header_Straight_1x04	1	TE Connectivity / AMP	826629-4	Mouser	571-826629-4
P7	CONN_02X03	Pin_Headers:Pin_Header_Straight_2x03	1	TE Connectivity / AMP	826632-3	Mouser	571-826632-3
J1	RPi_GPIO	Pin_Headers:Pin_Header_Straight_2x20	1	Harwin	M20-7832046	Mouser	855-M20-7832046
R30;R29	100k	Resistors_SMD:R_0603	2	Vishay	CRCW0402100KFKED	Mouser	71-CRCW0402-100K-E3
R15;R25	10k	Resistors_SMD:R_0603	2	Vishay	CRCW040210K0JNEDC	Mouser	71-CRCW040210K0JNEDC
R16;R17;R18;R19;R20;R21;R22;R24;R23;R13;R14;R11;R12	1k	Resistors_SMD:R_0603	13	Vishay	RCS04021K00JNED	Mouser	71-RCS04021K00JNED
R2;R1	1k1	Resistors_SMD:R_0603	2	Susumu	RR0510P-112-D	Mouser	754-RR0510P-112D
R28	1k5	Resistors_SMD:R_0603	1	Panasonic	ERA-2AED152X	Mouser	667-ERA-2AED152X
R10;R9	270	Resistors_SMD:R_0603	2	Panasonic	ERA-2AEB271X	Mouser	667-ERA-2AEB271X
R27;R26	27R	Resistors_SMD:R_0603	2	Susumu	RR0510R-270-D	Mouser	754-RR0510R-270D
R4;R3	3k8	Resistors_SMD:R_0603	2	Susumu	RR0510P-3831-D	Mouser	754-RR0510P-3831D
R6;R5	3r9	Resistors_SMD:R_0603	2	Vishay	CRCW04023R90JNED	Mouser	71-CRCW0402J-3.9-E3
R8;R7	560	Resistors_SMD:R_0603	2	Panasonic	ERA-2AEB561X	Mouser	667-ERA-2AEB561X
U4	LD1117S33TR	TO_SOT_Packages_SMD:SOT-223-3_TabPin2	1	Microchip Technology	TC2117-3.3VDBTR	Mouser	579-TC2117-3.3VDBTR