HMI TESTING BOARD BOM REV 1.0

DATE	**COMPANY**	**COMMENT 1**	**COMMENT 2**
2019-08-16	MOD Devices GmbH	MOD Duo controller	MOD DuoX controller
COMMENT 3	**COMMENT 4**	**TOTAL PARTS**	
https://github.com/moddevices/mod-hw-duo/tree/HMI_testing_board	Compatible w/ Marsboard SoM	57 (Unique 28)	

Ref	Qty	Value	Footprint	MPN MPN
[C] - Capacitors				
C1 C4 C5 C31 C55 C59	6	100nF	Capacitor_SMD:C_0603_1608Metric	C1608X7R1E104K080AA
C2 C6	2	2200uF	Capacitor_THT:CP_Radial_D10.0mm_P5.00mm	16PX2200MEFC10X20
C3 C7 C30 C58	4	10uF	Capacitor_SMD:C_0805_2012Metric	GRM219R61E106KA12D
C8 C10	2	100nF	Capacitor_SMD:C_0805_2012Metric	C1608X7R1E104K080AA
C9	1	10u	Capacitor_SMD:C_0805_2012Metric	GRM219R61E106KA12D
[D] - Diodes				
D1 D2	2	MBR230	Diode_SMD:D_SOD-123F	MBR230LSFT1G
D3	1	PRTR5V0U2X	Package_TO_SOT_SMD:SOT-143_Handsoldering	PRTR5V0U2X 215
D4 D5 D6	3	LED_RGB	LED_SMD:LED_Avago_PLCC6_3x2.8mm	LTRBGFSF-ABCB-QKYO-0-0-R18-Z
[F] - Fuse				
F1	1	FUSE	Fuse_Holders_and_Fuses:Fuse_SMD2920	0ZCF0200FF2C
[H] - Mounting Holes				
H1 H2 H5	3	HOLE	footprints:Hole_3.5mm	~
[L] - Inductors				
L1	1	600R 1.5A	Capacitor_SMD:C_0805_2012Metric	742792651
L2	1	1mH	Inductors:SELF-WE-PD-XXL	SRR1260-102K
[P] - Connectors				
P1	1	USB_B-RESCUE-bottom-board	Connector_USB:USB_B_OST_USB-B1HSxx_Horizontal	61729-1011BLF
P2 P3	2	Conn_02x50_Odd_Even	footprints-local:Pin_Header_Straight_2x50_Pitch1.27mm_SMD	
P5	1	BARREL_JACK	Connect:BARREL_JACK	PJ-002AH
P6	1	HMI_POWER	footprints:B2B-XH-A	B2B-XH-A(LF)(SN)
P8	1	HMI_DATA	footprints:Pin_Header_Straight_2x10_Shrouded	SBH11-PBPC-D10-ST-BK
P9	1	SERIAL_DEBUG	Pin_Headers:Pin_Header_Straight_1x03	~
[R] - Resistors				
R0	1	0R	footprints:Jumper_SMD_THT	~
R1	1	5k6	Resistor_SMD:R_0603_1608Metric	CRGCQ0603F5K6
R2 R12 R13	3	10K	Resistor_SMD:R_0603_1608Metric	RMCF0603JT10K0
R3 R4 R5 R6 R7 R8 R9 R10 R11	9	100	Resistor_SMD:R_0603_1608Metric	CRG0603J100R
R14	1	10k	Resistor_SMD:R_0603_1608Metric	RMCF0603JT10K0
R15 R16	2	2k7	Resistors_SMD:R_0603	RMCF0603JT2K70
R72 R73	2	100R	Resistor_SMD:R_0603_1608Metric	RMCF0603JT100R
[SW] - Switches				
SW1	1	SW_PUSH	Buttons_Switches_ThroughHole:SW_Tactile_SPST_Angled	1825027-2
SW2 SW3	2	SW_PUSH	Button_Switch_SMD:SW_SPST_TL3305A	TL3305AF160QG
[U] - Semiconductors				
U1	1	MURATA 5V	footprints:OKI-78SR_Vertical	OKI-78SR-5/1.5-W36-C