

MARF EXPANDER MODEL 248-EXP**BILL OF MATERIALS REV 1.0****SEMICONDUCTORS**

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
LM1117-5.0 -3.3	IC9	1		926-LM1117IMPX50NOPB 3.3/NOPB
CD4051 MAX4617	IC1, IC2, IC6, IC7	4		595-CD4051BE 700-MAX4616CPE
HC595	IC3, IC4, IC5, IC8	4		595-CD74HC595E

CAPACITORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
0.1uF	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10	10	CERAMIC 5MM LS	581-SA105E104M
22uF	C11	1	ELECTROLYTIC 2MM LS	647-UPW1H220MDD

RESISTORS

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
1K	R3, R4, R27, R28	4	1% 1/4W	271-1K-RC
270R 330R	R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20	16	1% 1/4W	271-270-RC 271-330-RC
50K LINEAR	POT1-POT16	16	SLIDER POTENTIOMETER	FARNELL/NEWARK: RS4511150K

MISC

VALUE	DESIGNATOR	QTY	DESCRIPTION	MOUSER PART#
	TO MASTER, TO SLAVE	2	IDC-16 THRUHOLE HEAD	571-1761681-6
	LED1-LED16	16	RED 3MM LED	604-WP710A10ID5V
	CABLE (QTY IS FEET; BUY 2')	2		517-3365/16-CUT-LENGTH
	IDC CABLE CONNECTORS WITH STRAIN RELIEF	2		164-9008-E
	15MM FF STANDOFF	4		710-970150354
	BLUE SLIDER CAPS	32		SAModular