

Quantity	Description	Manufacturer Part Number	Digi-Key Part Number	Reference
1	CAP CER 0.1UF 50V 10% X7R 0805	C0805C104K5RACTU	399-1170-1-ND	C
40	LED CHIPLED 645NM RED DIFF 0805	LH R974-LP-1	475-1415-1-ND	As per assembly drawing / orientation mark UNDER LED
1	CONN HEADER .100" SNGL STR 40POS	PRPC040SAAN-RC	S1011EC-40-ND	As per assembly drawing
3	RES 196 OHM 1/8W 1% 0805 SMD	MCR10ERTF1960	RHM196CHCT-ND	As per assembly drawing ("1960")
9	RES 215 OHM 1/8W 1% 0805 SMD	MCR10ERTF2150	RHM215CHCT-ND	As per assembly drawing ("2150")
2	RES 10K OHM 1/8W 5% 0805 SMD	RC0805JR-0710KL	311-10KARCT-ND	R25, R26
4	RES 205 OHM 1/8W 1% 0805	RMCF0805FT205R	RMCF0805FT205RCT-ND	As per assembly drawing ("2050")
8	RES 442 OHM 1/8W 1% 0805	RMCF0805FT442R	RMCF0805FT442RCT-ND	As per assembly drawing ("4420")
2	RES ARRAY 100K OHM 8 RES 2512	EXB-A10P104J	U7104CT-ND	RN1, RN2
1	IC I/O EXPANDER I2C 16B 24TSSOP	CAT9555YI-T2	CAT9555YI-T2CT-ND	U

Stellar Robotics, LLC

Lil'Bot emoshield Bill of Materials

July 17, 2014