

PARALLAX
Revision: A

Propeller Schmartboard module

Date:05/01/2009

Item	Quantity	Reference Designator	Part Discription	Footprint	MFR	MFR /PN	
1	3	C1,C2,C3	CAP 10UF 16V ELECT VR RADIAL	T.H.	Nichicon	UVR1C100MDD	
		Alternate surface mount part for C1,C2,C3	CAP 0805 CER 10UF 16V X5R	0805	MURATA	GRM21BR61C106KE15L	
2	1	C4	CAP 1UF 50V ELECT EB RADIAL	T.H.	PANASONIC	EEU-EB1H1R0S	
		Alternate surface mount part for C4	CAP 0805 CER 1.0UF 25V Y5V	0805	MURATA	GRM219F51E105ZA01D	
3	1	D1	LED RED CLEAR ROUND RADIAL	T.H.	PANASONIC	LN21RCPHL	
		D1A (Alternate Surface mount part for D1)	LED 0805 RED CLEAR	0805	LITEON	LTST-C170EKT	
4	1	J1	CONN POWER JACK 2.1MM CENTER POLE	T.H.	CUI	PJ-202A	
5	1	J2	HEADER 4X1 0.1"SP RIGHT ANGLE MALE	T.H.	MOLEX	22-28-9040	
6	1	J3	HEADER 2X1 0.1"SP STRAIGHT MALE	T.H.	TYCO/AMP	87224-2	
7	4	J5,J6,J7,J8	HEADER 11x1 0.1"SP STRAIGHT MALE	T.H.	MOLEX	22-28-4110	
8	2	R2,R3	RES 0603 10K OHM 1/10W 5%	0603	YAGEO	RC0603JR-0710KL	
		Alternate Through Hole part for R2,R3	RES METAL FILM 10K 1%	T.H.	XICON	271-10K-RC	
9	1	R1	RES 0603 470 OHM 1/16W 5%	0603	PANASONIC	ERA-V15J471V	
		Alternate Through Hole part for R1	RES 470 OHM METAL FILM 1W 5%	T.H.	VISHAY	PR01000104700JR500	
10	1	SW1	PUSHBUTTON Tactile Switches 3.5x6mm	T.H.	Mountain Switch	101-TS4311T3202-EV	
11	1	U1	IC TQFP 44PINS 32bit MCU	TQFP44	PARALLAX	P8X32A-Q44	
12	1	U2	IC TSSOP 8PINS EEPROM 32K or Larger	TSSOP8	ATMEL	AT24CXXX	
13	1	U3	IC SOT223 Regulator output 5.0V 1A	SOT223	ONSEMI	NCP1117ST50T3G	
14	1	U4	IC SOT223 Regulator output 3.3V 1A	SOT223	ONSEM	NCP1117ST33T3G	
15	1	Y1	CRYSTAL 5.000 MHZ 20PF 49US	T.H./ HC49US	ECS Inc.	ECS-50-20-4	

The Headers will be shipped with the board. Users will install these headers after they installed the ICs

Propeller IC, EEPROM, R2/R3 and Crystal will be purchased and installed by users