DWM1001

12-JUN-2018 D1.2

RELEASED

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DESIGN CONSIDERATIONS

DESIGN NOTE: Example text for informational design notes .

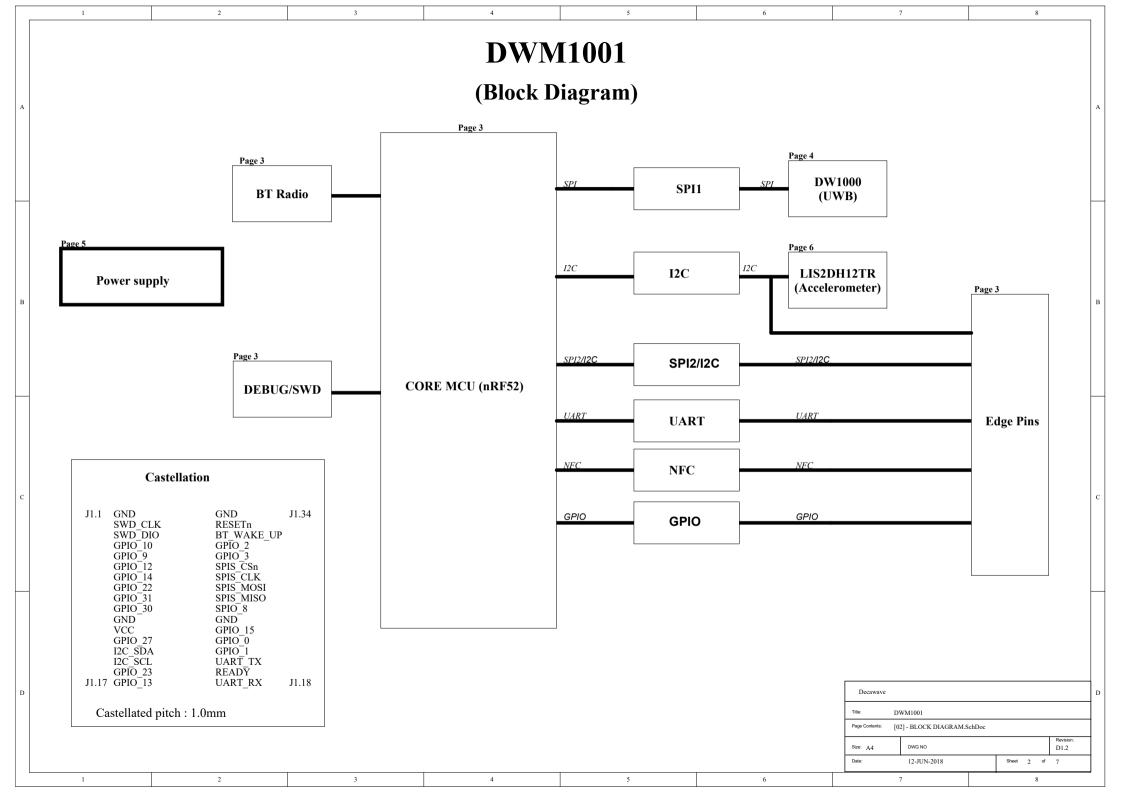
design notes.

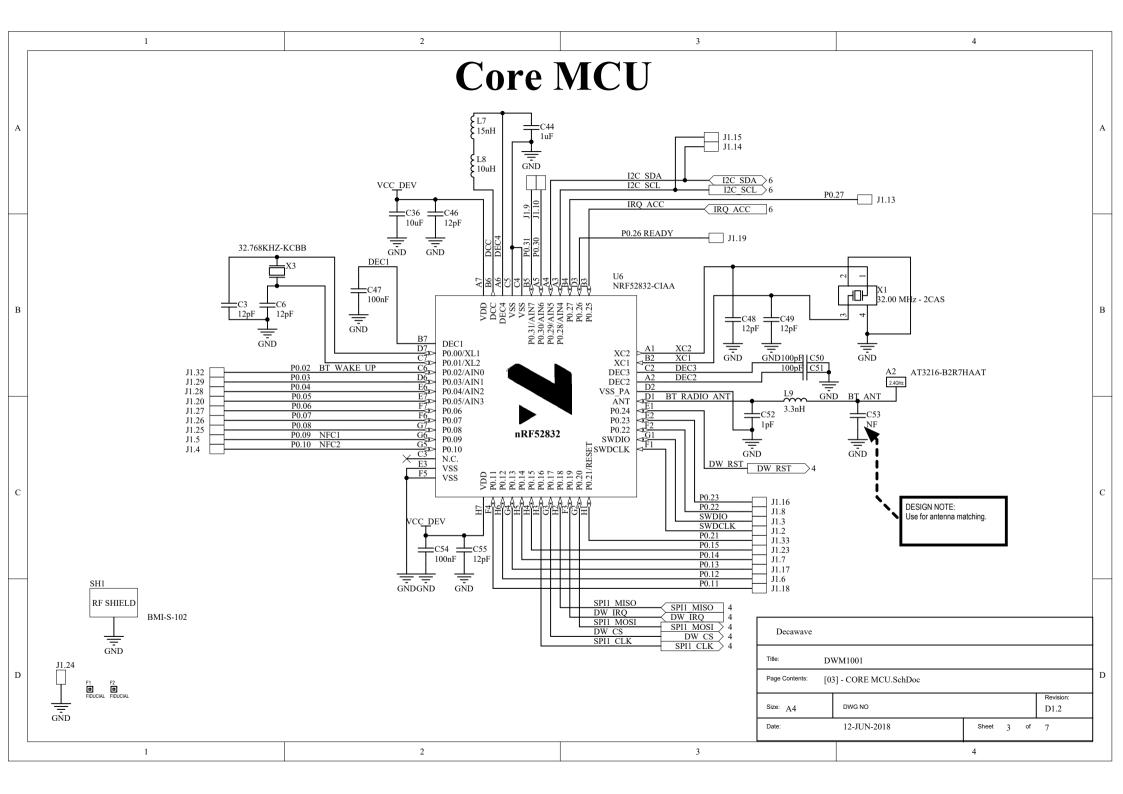
DESIGN NOTE: Example text for cautionary DESIGN NOTE: Example text for critical design notes

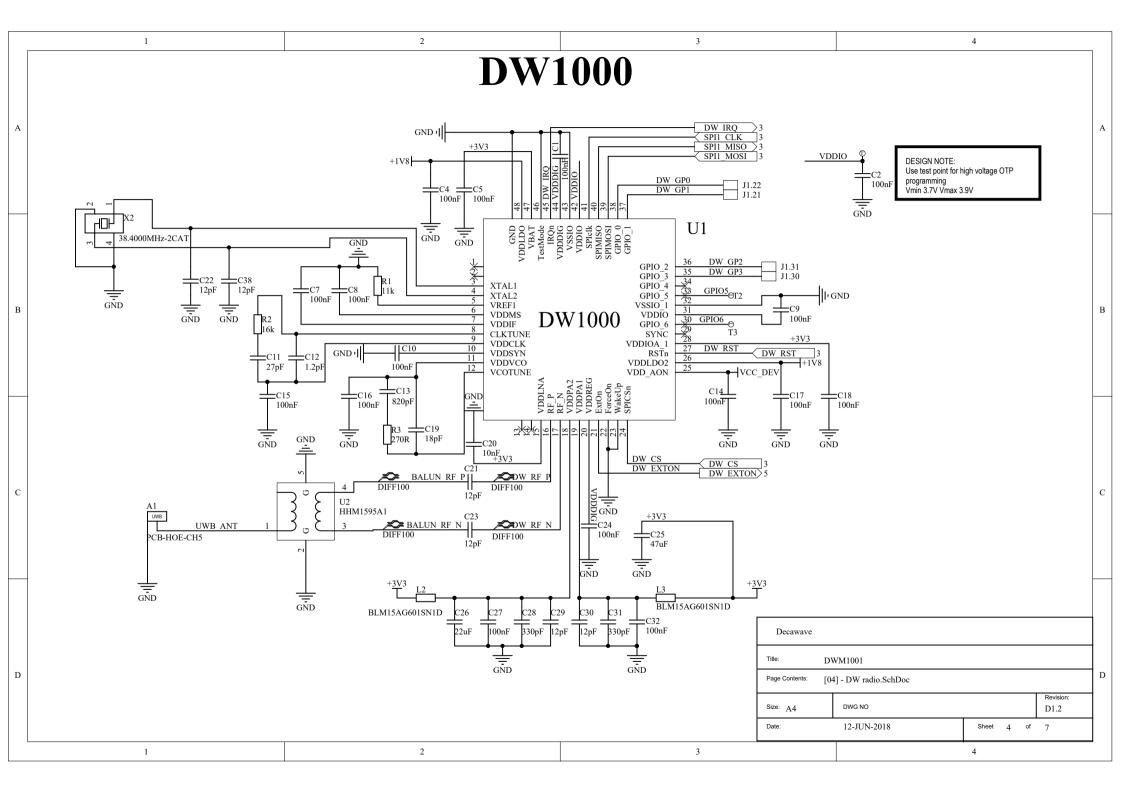
LAYOUT NOTE: Example text for critical layout guidelines.

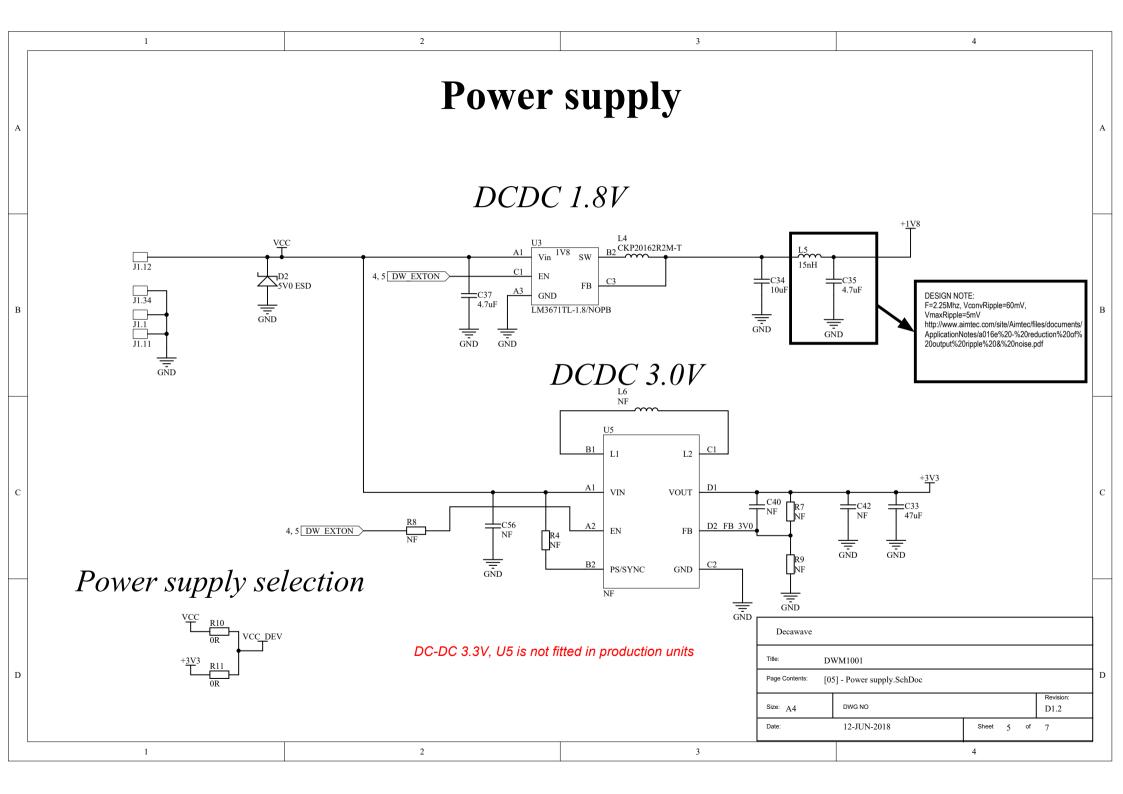
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[01] - COVER PAGE.SchDoc	Checked by JK.TDK.A				
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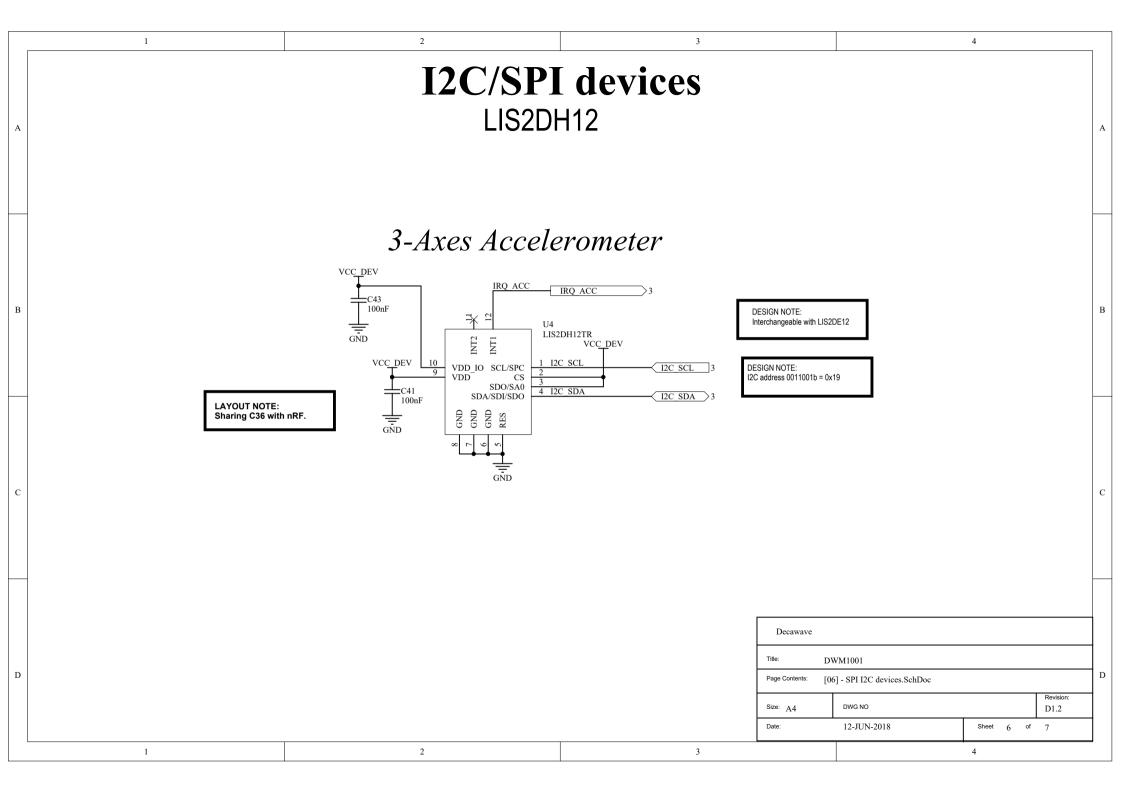
2 3 4 5 6 7 8











BOM

Quantity	Part number	Manufacturer	Decription	Value	Footprint	Tolerance	Voltage	Power Rating
1	AT3216-B2R7HAAT	ACX	Antenna, Bluetooth	Terror				
20	GRM033C81E104KE14D	Murata	Capacitor Non Polirized	0.1UF X6S	c 0201		25V	
12	GRM0335C1E120JA01D	Murata	Capacitor Non Polirized	12PF 25V	c 0201	F	25V	
1	GRM0335C1E270JA01D	Murata	Capacitor Non Polirized	27PF 25V	c_0201		25V	
1	GRM0335C1E1R2CA01D	Murata	Capacitor Non Polirized	1.2PF 25V	c_0201		25V	
1	GRM033R71E821KA01D	Murata	Capacitor Non Polirized	820PF 25V X7R 0201	c_0201		25V	
1	GRM0335C1H180JA01D	Murata	Capacitor Non Polirized	18PF 50V	c_0201		50V	
1	GRM033R61E103KA12D	Murata	Capacitor Non Polirized	10000PF 25V	c_0201		25V	
1	CL21A226MQQNNNE	SAMSUNG	Capacitor Ceramic	22uF 6.3V X5R	c_0805	+-20%	6.3V	
1	GRM21BR60J226ME39L	Murata	Capacitor Ceramic	22uF 6.3V X5R	c 0805	+-20%	6.3V	
2	CL03B331KA3NNNC	SAMSUNG	Capacitor Non Polirized	330PF 25V X7R	c_0201		25V	
2	GRM033R71E331KA01D	Murata	Capacitor Non Polirized	330PF 25V X7R	c_0201		25V	
2	GRM188R60J106ME47D	Murata	Capacitor Ceramic	10uF 6.3V X5R	c_0603	+-20%	6.3V	
2	CL10A475KQ8NNN#	SamSung	Capacitor Ceramic	4.7uF 6.3V X5R	c_0603	+-10%	6.3V	
1	GRM155R61A105KE15D	Murata	Capacitor Ceramic	1uF 10V X5R	c_0402	+-10%	10V	
2	GRM0335C1E101JA01D	Murata	Capacitor Ceramic	100pF 25V C0G	c 0201	+-5%	25V	
1	GRM0335C1H1R0BA01D	Murata	Capacitor Non Polirized	1PF 50V NP0	c 0201		50V	
1	DF2S6.2CT,L3F	Toshiba	Diode TVS DIODE 5VWM					
2	BLM15AG601SN1D	Murata	Ferrite Bead	600R @100MHZ 300mA	f 0402			
2	HK100515NJ-T	Taiyo Yuden	Inductor	15NH 320MA 460 MOHM	- 4		5	
1	LBMF1608T100K	Taiyo Yuden	Inductor	10UH 80MA 360 MOHM SMD				
1	LQP03TG3N3C02D	Murata	Inductor	3.3NH 400MA 320 MOHM			10	
1	RC0201FR-0711KL	Yageo	Resistor	11K	r_0201	+-1%		
1	RC0201FR-0716KL	Yageo	Resistor	16K OHM	r_0201	+-1%	5	1/20W
1	RC0201FR-07270RL	Yageo	Resistor	270 OHM	r_0201	+-1%		1/20W
2	RC0201JR-070RL	Yageo	Resistor	0R	r_0201	+-5%	10	
1	DW1000	Decawave	DW 1000	IC				
1	HHM1595A1	TDK	Balun	Low Insertion 3-8GHz UWB		F	3	
1	LM3671TL-1.8/NOPB	Texas Instruments	DDDC regulator	1.8V 0.6A SYNC 5BGA DSBGA-5				
1	LIS2DH12TR	ST Microelectronics	IC SMD 3-axis accelerometer	IC		,	TP.	
1	NRF52832-CIAA-R	Nordic Semiconductor ASA	IC SMD RF TXRX+MCU BLUETOOTH 50WLCSP	IC				
1	CKP2016 2R2M-T	Taiyo Yuden	inductor	2.2UH 1.2A 110 MOHM	48	F	3	
1	2CAS	Commutek	Crystal SMD	32MHz	8pF	+/-10ppm		
1	2CAT	Commutek	Crystal SMD	38.4MHz	10pF	+/-10ppm	:0	
1	KCBB	Commutek	Crystal SMD	32.768KHz KCBB				
1	RC0201FR-07287KL	Yageo	Resistant	287K OHM	r_0201	+-1%	1/20W	1/20W
	GRM188R60J476ME15D	Murata	Capacitor Ceramic	47uF X5R	c 0603	+-20%	6.3V	

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