DWM1001

07-SEP-2018 D1.21

RELEASED

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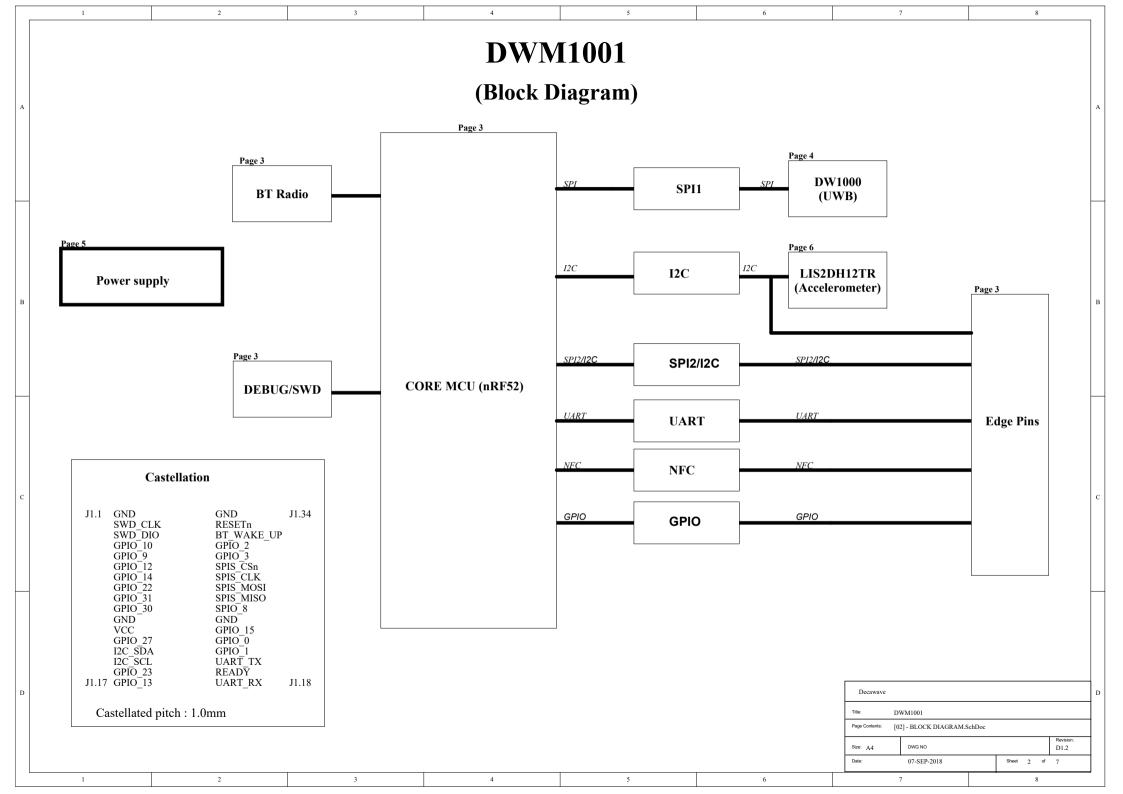
DESIGN CONSIDERATIONS

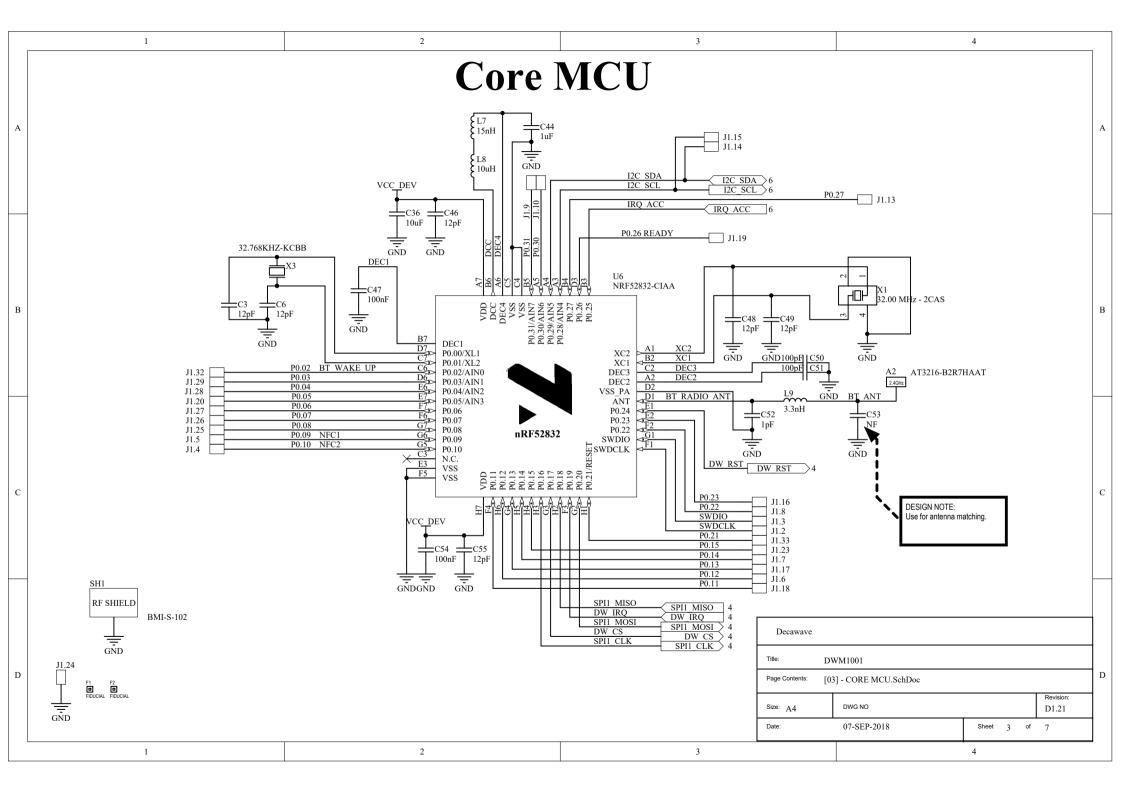
DESIGN NOTE: Example text for informational design notes DESIGN NOTE: Example text for critical design notes

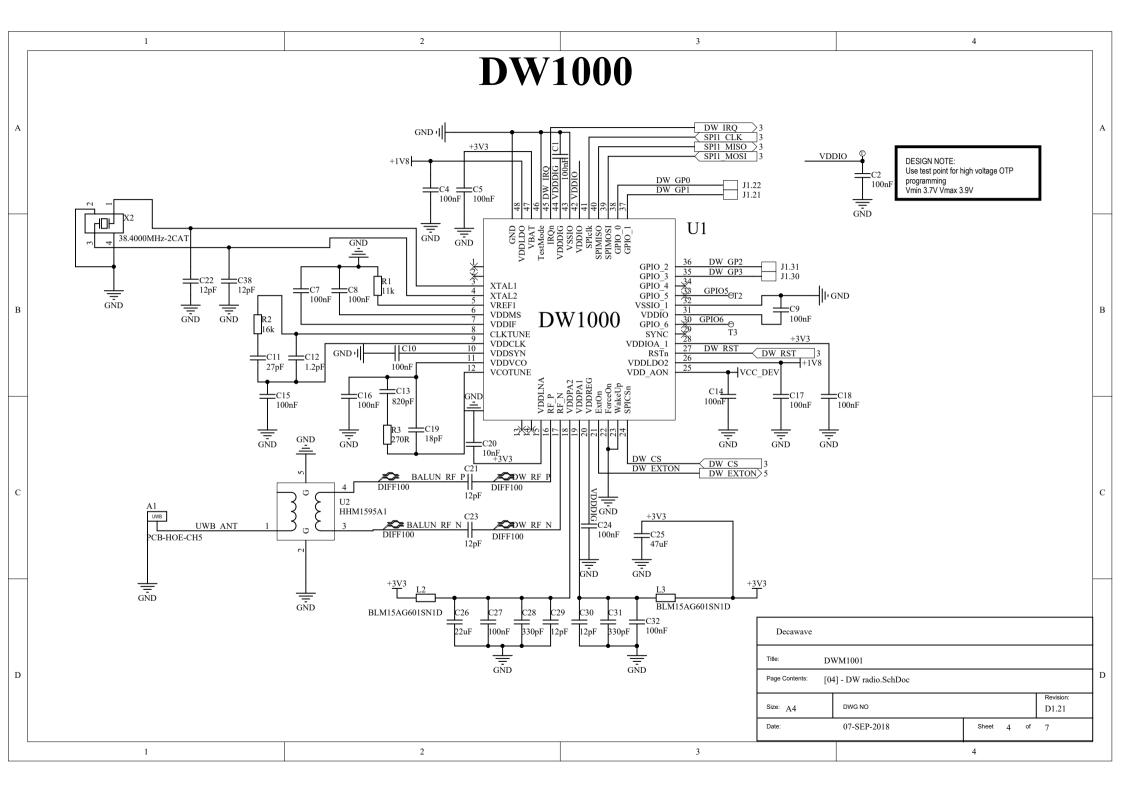
DESIGN NOTE: Example text for cautionary LAYOUT NOTE: Example text for critical layout guidelines.

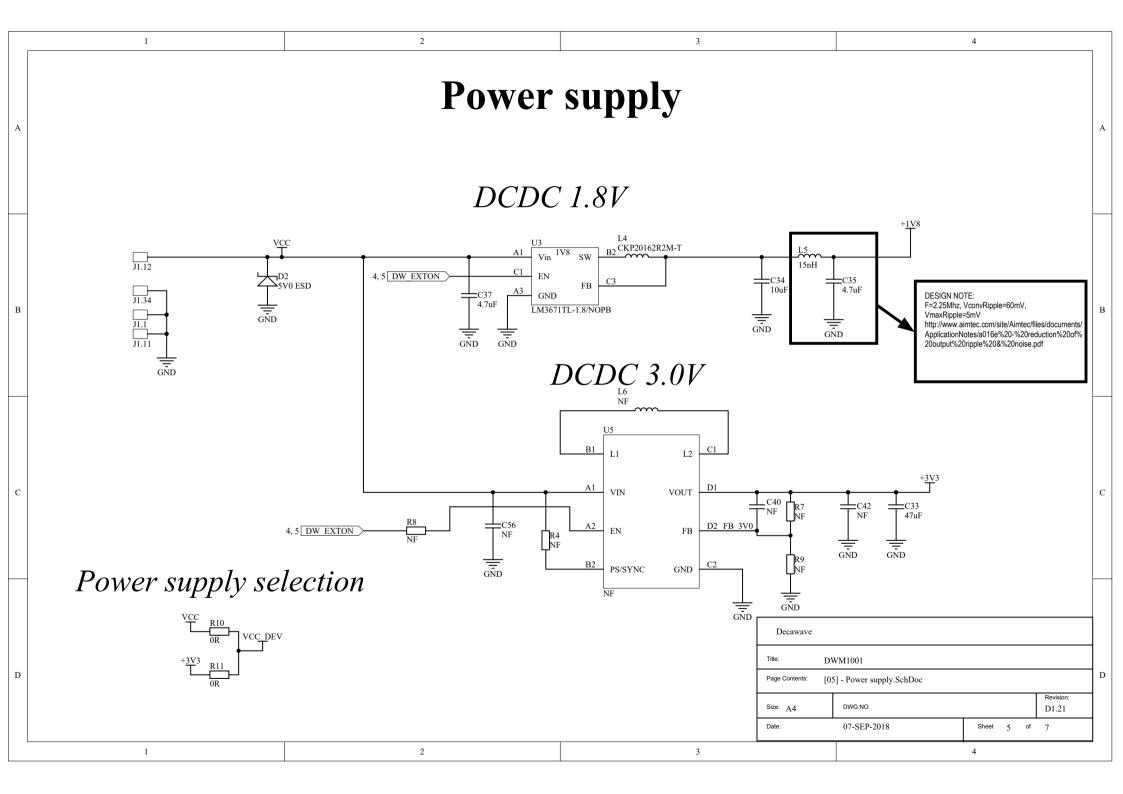
2

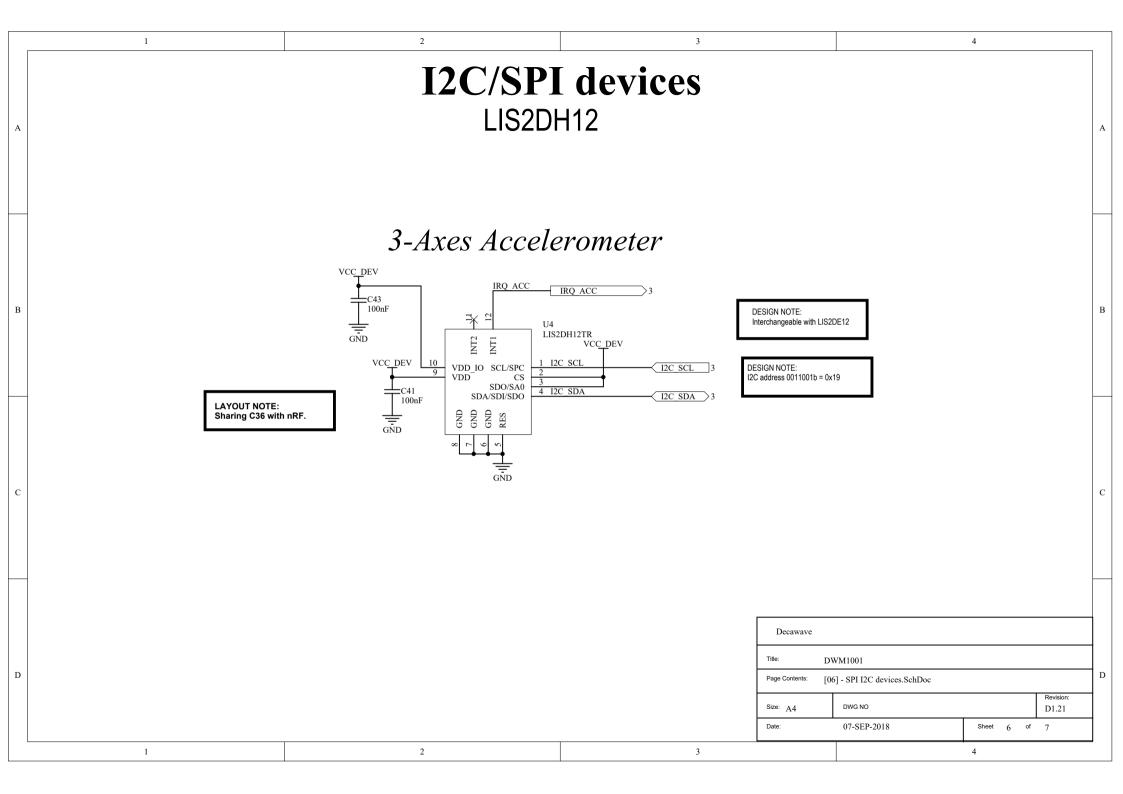
3 4 5 6 7 8











BOM

Quantity	Part number	Manufacturer	Decription	Value	Footprint	Tolerance	Voltage	Power Rating
1	AT3216-B2R7HAAT	ACX	Antenna, Bluetooth	T- 1				
20	GRM033C81E104KE14D	Murata	Capacitor Non Polirized	0.1UF X6S	c 0201		25V	
12	GRM0335C1E120JA01D	Murata	Capacitor Non Polirized	12PF 25V	c_0201		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	200,25,30	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	y Manager Carana and a second	Vs.		9	
2	BLM15AG601SN1D	Murata	Ferrite Bead	600R @100MHZ 300mA	f_0402			
2	HK100515NJ-T	Taiyo Yuden	Inductor	15NH 320MA 460 MOHM			.5	
1	LBMF1608T100K	Taiyo Yuden	Inductor	10UH 80MA 360 MOHM SMD	3		-	
1	LQP03TG3N3C02D	Murata	Inductor	3.3NH 400MA 320 MOHM	93		e	
1	RC0201FR-0711KL	Yageo	Resistor	11K	r_0201	+-1%		
1	RC0201FR-0716KL	Yageo	Resistor	16K OHM	r_0201	+-1%		1/20W
1	RC0201FR-07270RL	Yageo	Resistor	270 OHM	r_0201	+-1%	8	1/20W
2	RC0201JR-070RL	Yageo	Resistor	0R	r_0201	+-5%	e	
1	DW1000	Decawave	DW 1000	IC				
1	HHM1595A1	TDK	Balun	Low Insertion 3-8GHz UWB		5		
1	LM3671TL-1.8/NOPB	Texas Instruments	DDDC regulator	1.8V 0.6A SYNC 5BGA DSBGA-5	3			
1	LIS2DH12TR	ST Microelectronics	IC SMD 3-axis accelerometer	IC	95		ē.	
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			3	
1	2CAS	Commutek	Crystal SMD	32MHz	8pF	+/-10ppm	3	
1	2CAT	Commutek	Crystal SMD	38.4MHz	10pF	+/-10ppm	0	
1	KCBB	Commutek	Crystal SMD	32.768KHz KCBB			2 47455000000	
1	RC0201FR-07287KL	Yageo	Resistant	287K OHM	r_0201	+-1%	1/20W	1/20W
2	GRM188R60J476ME15D	Murata	Capacitor Ceramic	47uF X5R	c 0603	+-20%	6.3V	

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Revision	Date	Description
D1.0	17-Jan-2018	Initial release
D1.1	17-Apr-2018	Added castellation numbering J.x designator
D1.2	12-Jun-2018	Fix castellation numbering on page 2, added BOM
D1.21	7-Sep-2018	Added document history table

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