

ETERNA (TM) CASTELLATED MOTE WITH CHIP ANTENNA

Content:

1. Title Page
2. Eterna Mote-on-Chip
3. Castellations
4. Battery Holder and Accelerometer Options

Notes:

1. Assembly Options:
 - 1.a) X1 & X5: installed crystals (32kHz and 20 MHz resp.)
 - 1.b) R12 TCK termination not installed
 - 1.c) Battery holder not installed
 - 1.d) Accelerometer not installed
 - 1.e) 1/4 Wave stub disconnected

2. Associated Documents



PCB FAB
600-0167 REV3



BOM
700-0204 REV3



ASY DWG
705-0167 REV3

Revision History:

Rev	Description	ECO	Author
01	Initial release Based on 700-0167 rev3 using LTC5800IWR-IPRA	1180	CN
02	Update U1 p/n (documentation only, not a functional change)	1214	CN
03	Change 32kHz & 20MHz XTAL	1394	RMP



LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY

CUSTOMER NOTICE

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND IS SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

CONTRACT NO.

APPROVALS

DRAWN:

CHECKED:

APPROVED:

ENGINEER:

DESIGNER:



Linear Technology Corporation

1630 McCarthy Blvd. Phone: (408)432-1900
Milpitas, CA 95035 Fax: (408)434-0507


TITLE: LTP5901IPC-IPRA
PCA SCH, ETERNA CASTELLATED IP MNGR, RUSSIAN

SIZE A DWG NO. 710-0204 REV 03

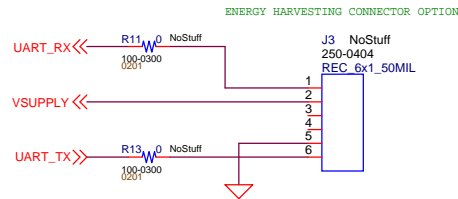
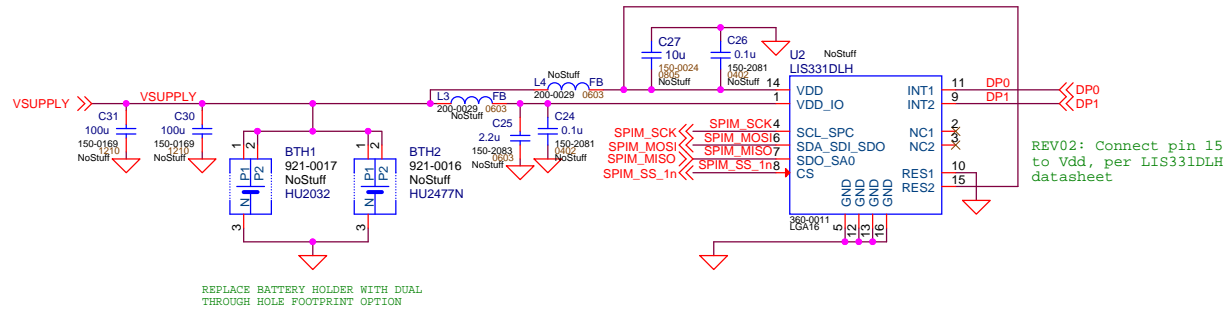
DATE: Wednesday, July 29, 2015 SHEET 1 OF 4

CASTELLATIONS



LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY		CONTRACT NO.		 Linear Technology Corporation 1630 McCarthy Blvd. Phone: (408)432-1900 Milpitas, CA 95035 Fax: (408)434-0507	
CUSTOMER NOTICE LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.		APPROVALS			
		DRAWN:			
		CHECKED:			
THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND IS SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.		APPROVED:		TITLE: LTP5901IPC-IPRA PCA SCH, ETERNA CASTELLATED IP MNGR, RUSSIAN	
		ENGINEER:			
		DESIGNER:			
		SIZE A	DWG NO. 710-0204	REV 03	
		DATE: Tuesday, July 28, 2015			SHEET 3 OF 4

BATTERY HOLDER & ACCELEROMETER OPTIONS



PLACE R11, R13 & J3 ON BOTTOM, MAY INTERFERE WITH BATTERY HOLDER.
J3 SHROUD SHALL PROTRUDE FROM EDGE OF BOARD OPPOSITE TO CHIP ANTENNA.
PLACE R11 and R13 NEAR U1 TO MINIMIZE UART_RX AND UART_TX NET LENGTH.



LTC CONFIDENTIAL - FOR CUSTOMER USE ONLY

CUSTOMER NOTICE

LINEAR TECHNOLOGY HAS MADE A BEST EFFORT TO DESIGN A CIRCUIT THAT MEETS CUSTOMER-SUPPLIED SPECIFICATIONS; HOWEVER, IT REMAINS THE CUSTOMER'S RESPONSIBILITY TO VERIFY PROPER AND RELIABLE OPERATION IN THE ACTUAL APPLICATION. COMPONENT SUBSTITUTION AND PRINTED CIRCUIT BOARD LAYOUT MAY SIGNIFICANTLY AFFECT CIRCUIT PERFORMANCE OR RELIABILITY. CONTACT LINEAR TECHNOLOGY APPLICATIONS ENGINEERING FOR ASSISTANCE.

THIS CIRCUIT IS PROPRIETARY TO LINEAR TECHNOLOGY AND IS SUPPLIED FOR USE WITH LINEAR TECHNOLOGY PARTS.

CONTRACT NO.
APPROVALS
DRAWN:
CHECKED:
APPROVED:
ENGINEER:
DESIGNER:

dust networks™ **Linear Technology Corporation**
1630 McCarthy Blvd. Phone: (408)432-1900
Milpitas, CA 95035 Fax: (408)434-0507

TITLE: **LTP5901IPC-IPRA**
PCA SCH, ETERNA CASTELLATED IP MNGR, RUSSIAN

SIZE **A** DWG NO. **710-0204** REV **03**

DATE: **Tuesday, July 28, 2015** SHEET **4** OF **4**