

Tuesday, November 24, 2015

Instructions for modifying NAMote-72 to SMA for RF signals

Description

These instructions indicate the steps required to change the RF signal routing for the NAMote-72 (NorAm LoRa Mote) to utilize an SMA connector while disconnecting the internal antenna. Both solder iron and hot-air re-work should be used to implement these instructions. Upon completion of these instructions the internal antenna will be disconnected and all RF signals will be conducted to a surface mount SMA connector.

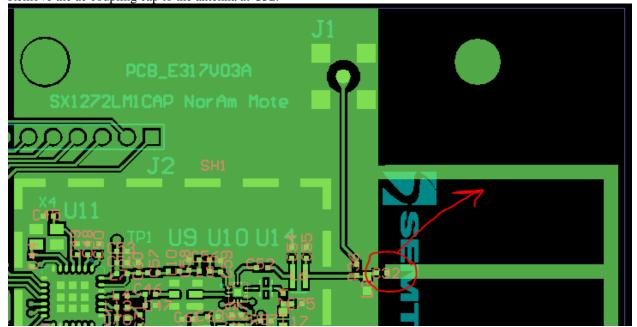
Components Required

CONN SMA JACK STR 50 OHM SMD		Molex Inc	0732511350	DigiKey	WM9357-ND
Thick Film Resistor ±1%, 1/16W	0 Ohms	Vishay/Dale	CRCW04020000Z0ED	DigiKey	541-0.0JDKR-ND

Instructions

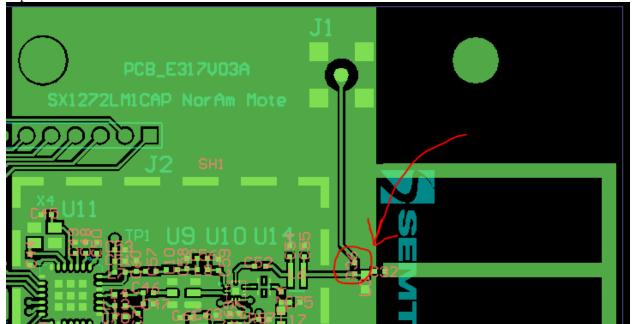
1. Remove the board from the enclosure.

2. Remove the ac coupling cap to the antenna at C32.

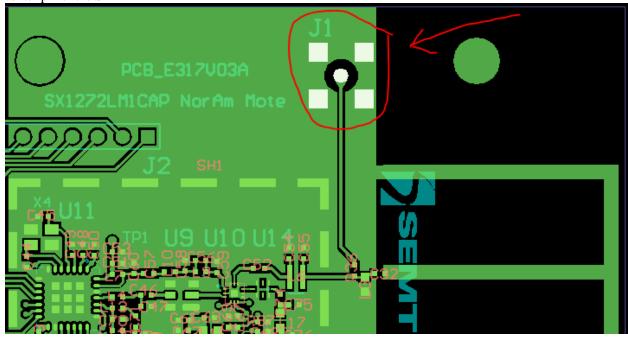




3. Populate R36 with a 0 Ohm 0402 size SMT resistor.



4. Install a vertical surface mount SMA at J1. This should be done with Hot-Air Rework due to the limited clearance to the center pin of the SMA.



END OF INSTRUCTION