

## Correspondence by Project

### Project Number:

1174921677

Correspondence Number	Memo
W9B15030205B-1	<p>1) A new TCB certification contract needs to be filled out. Response: The new TCB certification contract has been filled out. 2) The test report shows that the device was tested at an angle. Please explain why it wasn't tested in a normal axis such as X, Y or Z. Response: The manual has been revised to show placing the device at a 45 degree angle. 3) The block diagram submitted states a different frequency range. Please submit a new block diagram with the correct frequency range. Response: The block diagram has been revised to show the correct frequency. 4) Some of the values on the schematics submitted do not match what the internal photos show. Please submit new schematics. The schematics are correct. Please see the Bourns document on how certain components are labeled. Examples: R4 is 100 KOhm, CR0603 5%. On page 4 of the Bourns spec, the resistor markings for an E-24 format are: 3 digits, first two digits are significant, third digit is number of zeros. To get a marking code for 100000 Ohms, the value of 10 is followed by 4 zeros, giving a code of 104. So a Bourns CR0603 5% resistor labeled 104 translates to <math>100000 = 100 \text{ KOhms}</math>, matching the schematic for R4. R23 is 200 KOhm, CR0603 1%. On page 4 of the Bourns spec in the "EIA-96 Marking for CR0603, 1%" table, you can find 200 in column 6 "R Value". Immediately to the left, in the Code column, is 30. To get a marking code for 200 KOhm, the Code of 30 is followed by the letter D, which means a <math>10^3</math> multiplier. So a Bourns CR0603 1% resistor labeled 30D translates to <math>200 \times 10^3 = 200000 \text{ Ohms} = 200 \text{ KOhms}</math>, matching the schematic for R23. R27 is 5.9 KOhm, CR0603 1%. On page 4 of the Bourns spec in the "EIA-96 Marking for CR0603, 1%" table, you can find 590 in column 14 "R Value". Immediately to the left, in the Code column, is 75. To get a marking value of 5900 Ohms, the Code of 75 is followed by the letter B, which means a <math>10^1</math> multiplier. So a Bourns</p>

**CR0603 1% resistor labeled 75B translates to  $590 \times 10^1 = 5900$  Ohms, matching the schematic for R27.**