Change Notice

Change to Green LED Specifications for M2100 Toggles & Rockers

Type of Change:

✓ Engineering✓ Part Number✓ Product✓ Appearance

1. The M2100 Toggles and Rockers will have changes to the specifications for single color Green (F) LEDs. The changes will effect all of the switches, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.

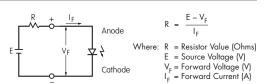


M2100 Series

| LED COLOR & SPECIFICATIONS | | | | |
|--|-----------------|----------------|----------------|--|
| The electrical specifications shown are determined at a basic temperature of 25°C. The LED is an integral part of the switch | | Before Change | After Change | |
| and is not available separately. | Color | Green F | Green F | |
| Maximum Forward Current | I _{FM} | 30mA | 30mA | |
| Typical Forward Current | I _F | 20mA | 20mA | |
| Forward Voltage | V _F | 2.1V | 2.2V | |
| Maximum Reverse Voltage | V _{RM} | 4V | 4V | |
| Current Reduction Rate Above 25°C | ΔI_{F} | 0.40 mA/°C | 0.38 mA/°C | |
| Ambient Temperature Range | | −10 ~ +55 °C | −10 ~ +55 °C | |

Notes

- The LED circuit is isolated and requires an external power source.
- If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula shown here.
- The changes to LED specifications do not effect any external dimensions of the switches.
- Contact the factory if further details are needed.



| M2100 TOGGLES EFFECTED BY REVISIONS | | | | | | |
|-------------------------------------|--------------|--------------|------------|------------|------------|------------|
| M2112LFW01/M | M2112LFW02/M | M2112LFW03/M | M2112LFW01 | M2112LFW02 | M2112LFW03 | M2112LFG30 |
| M2112TFW01/M | M2112TFW02/M | M2112TFW03/M | M2112TFW01 | M2112TFW02 | M2112TFW03 | M2112TFG30 |
| M2113LFW01/M | M2113LFW02/M | M2113LFW03/M | M2113LFW01 | M2113LFW02 | M2113LFW03 | M2113LFG30 |
| M2113TFW01/M | M2113TFW02/M | M2113TFW03/M | M2113TFW01 | M2113TFW02 | M2113TFW03 | M2113TFG30 |

| M2100 ROCKERS EFFECTED BY REVISIONS | | | | |
|-------------------------------------|------------|------------|------------|--|
| M2112NFW01 | M2112NFW02 | M2112NFW03 | M2112NFW13 | |
| M2112RFW01 | M2112RFW02 | M2112RFW03 | M2112RFW13 | |
| M2113NFW01 | M2113NFW02 | M2113NFW03 | M2113NFW13 | |
| M2113RFW01 | M2113RFW02 | M2113RFW03 | M2113RFW13 | |

Effective Date

Changes to Green (F) LEDs for M2100 Series will be effective November 2016.



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Change Notice

Change to Red LED Specifications for M2100 Toggles & Rockers

Type of Change:

☑ Engineering

□ Part Number

✓ Product

☑ Appearance

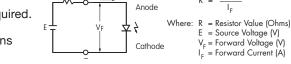
2. The M2100 Toggles and Rockers will have changes to the specifications for single color Red (C) LEDs. The changes will effect all of the switches, both standard and custom. The specification changes are outlined below, followed by effected standard part numbers.

| LED COLOR & SPECIFICATIONS | | | | |
|---|-----------------|---------------|--------------|--|
| The electrical specifications shown are determined at a b temperature of 25°C. The LED is an integral part of the s | | Before Change | After Change | |
| and is not available separately. | Color | Red C | Red C | |
| Maximum Forward Current | I _{FM} | 25mA | 30mA | |
| Typical Forward Current | l _F | 20mA | 20mA | |
| Forward Voltage | V_{F} | 2.1V | 2.2V | |
| Maximum Reverse Voltage | V_{RM} | 4V | 4V | |
| Current Reduction Rate Above 25°C | ΔI_{F} | 0.33 mA/°C | 0.38 mA/°C | |
| Ambient Temperature Range | | −10 ~ +55 °C | −10 ~ +55 °C | |

• The LED circuit is isolated and requires an external power source.

 If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula shown here.

• The changes to LED specifications do not effect any external dimensions of the switches. Contact the factory if further details are needed.



| Contact the factory in further | details are needed. |
|--------------------------------|---------------------|
| | M2100 TO |
| | |

| M2100 TOGGLES EFFECTED BY REVISIONS | | | | |
|-------------------------------------|--------------|--------------|------------|--|
| M2112LCW01/M | M2112LCW02/M | M2112LCW03/M | M2112LCG30 | |
| M2112TCW01/M | M2112TCW02/M | M2112TCW03/M | M2112TCG30 | |
| M2113LCW01/M | M2113LCW02/M | M2113LCW03/M | M2113LCG30 | |
| M2113TCW01/M | M2113TCW02/M | M2113TCW03/M | M2113TCG30 | |
| M2112LCW01 | M2112LCW02 | M2112LCW03 | | |
| M2112TCW01 | M2112TCW02 | M2112TCW03 | | |
| M2113LCW01 | M2113LCW02 | M2113LCW03 | | |
| M2113TCW01 | M2113TCW02 | M2113TCW03 | | |
| M2100 ROCKERS EFFECTED BY REVISIONS | | | | |
| M2112NCW01 | M2112NCW02 | M2112NCW03 | M2112NCW13 | |
| M2112RCW01 | M2112RCW02 | M2112RCW03 | M2112RCW13 | |
| M2113NCW01 | M2113NCW02 | M2113NCW03 | M2113NCW13 | |
| M2113RCW01 | M2113RCW02 | M2113RCW03 | M2113RCW13 | |

Effective Date

Changes to Red (C) LEDs for M2100 Series will be effective March 2017.



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