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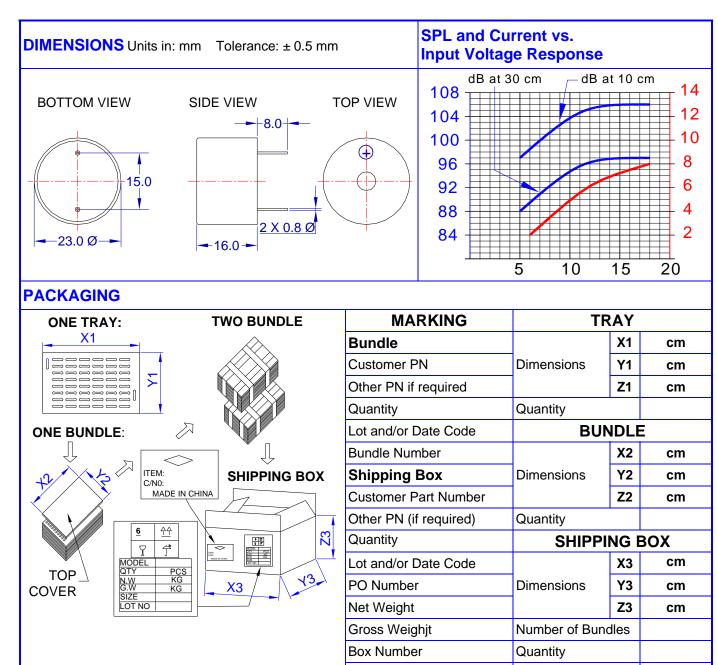
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PRODUCT INFORMATION CPB23C12-2.9R PART #: **Revision: 1-2011 €** RoHS **♦** PIEZOELECTRIC BUZZER COMPLIANCE DESCRIPTION **FEATURES** Challenge Electronics Piezoelectric Buzzer, 23.0 mm Diameter, A style case, 16.0 mm High, 3-20 Vdc, Continuous Tone Medium RoHS Compliant Loud, 2,900 Hz Resonant Frequency, Typical Sound Pressure Level at 95 dB(A) at 30 cm and Nominal Voltage, PC Pins Termination, 15 mm • ISO 9001 Certified Pins Spacing, RoHS Compliant SPECIFICATIONS Medium Loud, Continuous Tone | Operating Voltage | 3 - 20 Vdc Alarm Type Nominal Voltage **Resonant Frequency** $2,900 \pm 500 Hz$. **Maximum Operating Current** 10 mA at Nominal Voltage Minimum 88 dB(A), Typical 95 dB(A) at: Nominal Voltage, 30 cm, 25°C **Sound Pressure Level** -40°C to + 85°C Storage Temperature -40 °C to + 90°C **Operating Temperature** Plastic, Noryl PX9406 or equal, Flame Retardant UL 94-VO, Black Diaphragm Housing **Brass** Material Two PC Pins, 0.8 mm Diameter, Brass, Electro-Tin Plated **Plastic Plate Termination Encapsulation** 16.0 mm | Pin Spacing Length/ Diameter (L /D) 23.0 mm Ø Width (W) **Physical Dimensions** Height (H) 15.0 mm **Approximate Weight** 3.7 grams Removable Washing Label No **Compliance RoHS Packaging** RELIABILITY 240 hours continuous operation, at Nominal Voltage, at Maximum Rated Operating Temperatures * **Thermal Operating Cycle Test** 240 hours continuous operation, at Nominal Voltage, at Minimum Rated Operating Temperatures * 240 hours at Maximum rated Storage Temperatures, NO power applied Thermal Storage Cycle Test 240 hours at Maximum rated Storage Temperatures, NO power applied * SINGLE CYCLE Put in Minimum Operating Temperature for 1 hour than move to +20°C for 5 minutes than at Maximum Thermal Shock Test Operating Temperature for 1 hour. Then back to +20°C 5 minutes Repeat for 5 cycles 120 Hours at +60°C±2°C. 90-95% RH * **Humidity Test** A minimum of 10 MΩ, measured with DC 100V Insulation Resistance Meter, between the Electrical **Insulation Test** Terminals and the Transducer Case * **Vibration Test** Two (2) Hours at 1.5mm with 10 to 55Hz. of vibration frequency to each of 3 perpendicular directions * Maximum of 9.8 N load pull test, applied to each terminal in axial direction for 10 second * **Termination Strength** Dropped naturally from 700mm height onto the surface of 10mm wooden board, 2 directions—upper and **Drop Test** side of the part are applied * Terminal leads are immersed in rosin for 5 seconds and then immersed in solder-bath of +270°C **Solderability** for 3±1 seconds Terminal leads are immersed, up to 1.5 mm from part case, in rosin for 5 seconds and then **Soldering Heat Resistance** immersed in solder-bath of +350±5°C for 3±0.5 seconds or +260±5°C for 10±1 seconds **Reliability Test Performance** Parts should conform to original performance within ±3dB, after 3 hours of recovery period Two hundred fifty (250) hours of continuous operation, at Nominal Voltage, each at Minimum & Maximum Rated Operating Temperatures Life Test One thousand (1,000) hours of: 1 minute ON 4 minutes OFF cycle, at Room Temperature, and Maximum Rated Voltage Warranty For a period of one (1) year from date of manufacture under normal operating conditions

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Approximate Weight

of Number of Boxes

Made in China