



An Affiliate of ELECTRO SWITCH

KI68U6 OEM Medical Keyboard

NEMA 4 (IP66) OEM MEDICAL / CLEANROOM KEYBOARD

KI68U6 USB MEDICAL KEYBOARD

CTI's OEM KI68U6 Medical / Cleanroom Keyboard is comprised of a durable Printed Circuit Board (PCB), a rubber silicone Elastomer, and an optional USB cable. The PCB is designed for protection against electromagnetic and radio frequency interference as well as electro static discharges. Upon the PCB is a layer of hard plated gold used for the switching contacts of the Keys. Molded under the Key of the Elastomer are four hard carbon pill contacts which provide reliability and durability. This Elastomer features a time tested durometer that provides an ergonomic key stroke with excellent tactile feedback. It also includes a special molded O-Ring which compresses to ensure a watertight seal. In addition, the Elastomer has been treated with a thermally infused silicone ink to create the QWERTY legend and then molecularly sealed through a Parylene "C" coating process in a gas chamber. Lastly, installation is easy since the Elastomer has bosses which hold the PCB assembly together, thus no messy glue or sealers are required.

The NEMA 4 (IP66) sealing Medical / Cleanroom Keyboard is most suitable for critical applications requiring high durability (10M+ cycles), high reliability (99.999% availability), and/or ensured performance under extreme operating temperatures, exposure to harsh climate conditions, and/or solid and liquid contaminants. It's well protected against high vibration, EMI/RFI signals, bio-hazardous agents, and cleaning solvents. This compact keyboard with its shallow depth below panel minimizes area requirements.

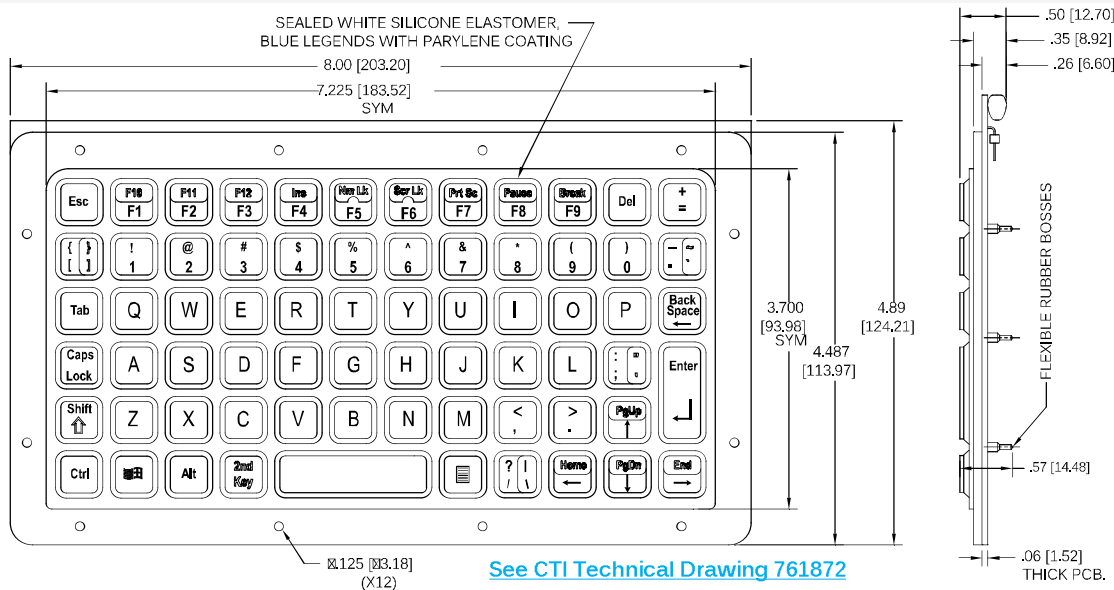
This OEM Medical / Cleanroom Keyboard is offered to Original Equipment Manufacturers as an open frame module with exposed electrical components that requires mounting and encasement. The properly positioned through holes of the PCB an Elastomer will ensure a NEMA 4 (IP66) watertight sealing over a broad operating temperature range when fastened into a metal enclosure. The combined features of the OEM Medical / Cleanroom Keyboard will meet and/or exceed industry standards specifications.

KI68U6 TECHNICAL DRAWINGS

761872

KI68U6 OEM Medical Keyboard

KI68U6 MEDICAL KEYBOARD TECHNICAL DRAWING



KI68U6 STANDARD FEATURES

- NEMA 4 (IP66) sealing when properly installed
- Standard Operating Temperature -40°C to 80°C (-40°F to 176°F)
- High reliability and durability (MTBF 100,000+ hours, 10,000,000+ deflections)
- Key contacts are comprised of a thick layer of hard gold on PCB and hard carbon pills molded into the Silicone Rubber Elastomer
- 2mm Key travel with excellent tactile feedback to operator
- Thermally infused silicone ink into the Elastomer ensures long term readability
- Parylene "C" coated Elastomer protects from penetration of bio-hazardous materials at the molecular level.
- A thick 0.06" PCB ensures rigidity under pressure and protection of electronic components
- PCB layout offers EMI/RFI shielding and Ground Connection (ESD)

performance

durability

reliability



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MEDICAL KEYBOARD COMPARISON CHART

	KI68U6	KI078U6
Dimensions	8.00" x 4.89" x 0.50" (230.20mm x 124.21mm x 12.70mm)	11.63" x 4.86" x 0.73" (295.28mm x 123.34mm x 18.54mm)
Weight (No Cable)	7 Oz (198 grams)	12 Oz (340 grams)
Weight (with 9.5ft Cable)	9.8 OZ. (278 Grams)	14.8 OZ. (420 Grams)
Mouse Pointer		OrbitalMouse® (Eight Speed Curves)
Numeric Keypad		Yes
Key Functionality	101/104	101/104
Function Keys	12	12
Language Options	US QWERTY	US QWERTY
Total Keys	69 Keys	90 Keys
Key Travel	2mm travel with excellent tactile feedback	

KI68U6 SPECIFICATION

KI68U6 Measurements	Width: 8.00" (230.20mm)	Height: 4.89" (124.21mm)	Depth: 0.50" (12.70mm)	Weight: 7 Oz (198 grams)
Operating Systems	Microsoft Windows® Operating System (Windows XP, Windows 7, Windows 8, Windows 10)			
	Mac OS X® or Linux OS requires compliant USB Device Class Definition for Human Interface Devices 1.11			
Standard Driver	USB Keyboard Driver			

KI68U6 ELECTRICAL SPECIFICATION

MTBF	Greater than 100,000 hours
Cabling	Optional Shielded USB Cable (1 foot to 9.5 feet)
Ground Connection	Yes
EMI/RFI Shielding	Designed into PCB Layout
ESD Protection	8Kv (Contact), 15Kv (Air)

KI68U6 MECHANICAL SPECIFICATION

Life Expectancy	Elastomer Keys 10,000,000+ activations/cycles (hard carbon pills, hard gold plated PCB)		
Shock	Peak Value 50g (typical)	Peak Duration 11ms	Waveform Half Sine
Vibration	Frequency / Displacement	10-55 Hz @ 0.013 DA	

KI68U6 ENVIRONMENTAL SPECIFICATION

Operating Temperature	-40° to 80° C / -40° to 176° F
Storage Temperature	-40° to 80° C / -40° to 176° F
Relative Humidity	100% condensing
Sealing Rating	NEMA 4 (IP66)
Bio-Hazard Protection	Parylene Coated Elastomer- toughest molecular barrier protection

CONFORMANCE / CERTIFICATIONS / COMPLIANCE

subject to manufacturing options applied

U.S.A. Standards	U.S. FCC 47 CFR 15 Class A & B	RF Emissions Compliant 8Kv (Contact), 15Kv (Air)
	MIL-STD-461F	Radiated Emissions and Susceptibility Conformance
	MIL-STD-810G	Protection against humidity, fungus, and salt spray Conformance
	MIL-STD-901D	Protection against shock Conformance
	MIL-STD-167-1	Protection against vibration Conformance
	MIL-STD-1472G	Human Factors Conformance
	MIL-I-45208	Quality System Conformance
	IPC-A-610 II	Acceptability of Electronics Assemblies Certification
European Standards	ISO 9001:2008 (Registration No. 74 300 3983)	
	"CE" Compliant	
	Restriction of Hazardous Substance (RoHS) Directive Compliant	
Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive Compliant		
International Standards	IEC 61000-4-2 and EN61000-4-2	ESD 8Kv contact and 15Kv air Conformance
	IEC 61000-4-3 and EN61000-4-3	Radiated Emissions and Susceptibility Conformance
	IEC 61000-6-3 and EN61000-6-3	Electromagnetic Compatibility Conformance

performance

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