

SERIES 96

Conductive Rubber

FEATURES

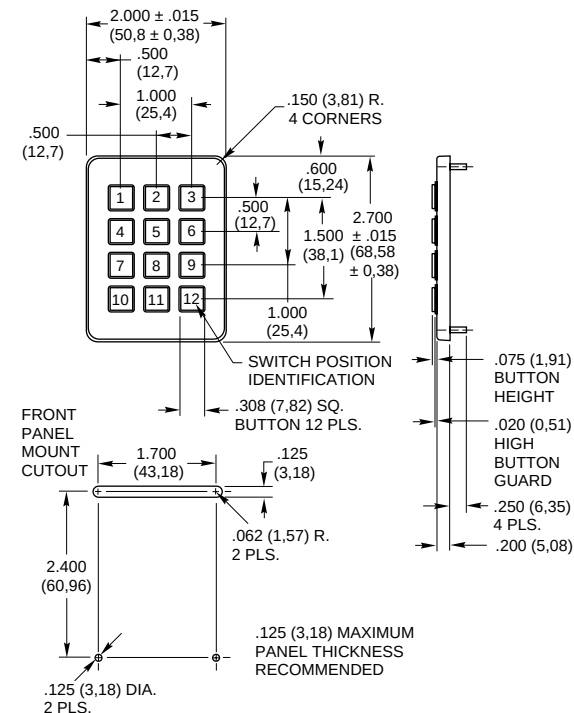
- Quality, Economical Keyboards
- Easily Customized Legends
- Matrix Circuitry
- Backlit and Shielded Options Available
- Termination Mates With Standard Connectors
- Tactile Feedback to Operator
- 1,000,000 Operations per Button
- Compatible With High Resistance Logic Inputs

The Series 96 is Grayhill's most economical 3x4 and 4x4 keypad family. The contact system utilizes conductive rubber to mate the appropriate PC board traces. Offered in matrix circuitry, with shielded and backlit options. Built with quality component parts, the Series 96 is subjected to our rigid statistical process control to insure that it meets our reliability standards.

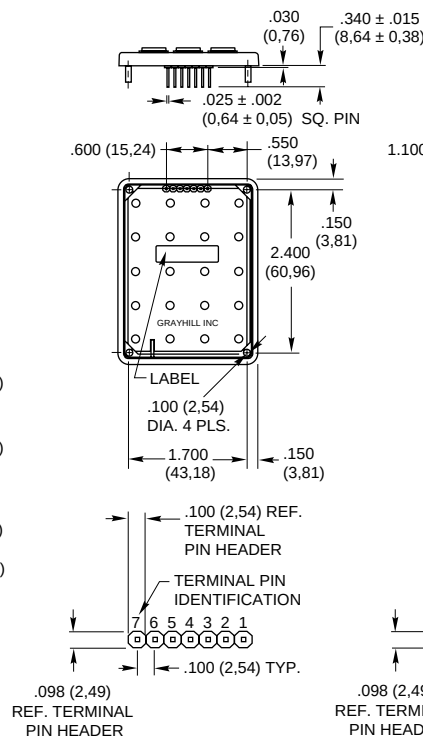


DIMENSIONS In inches (and millimeters)

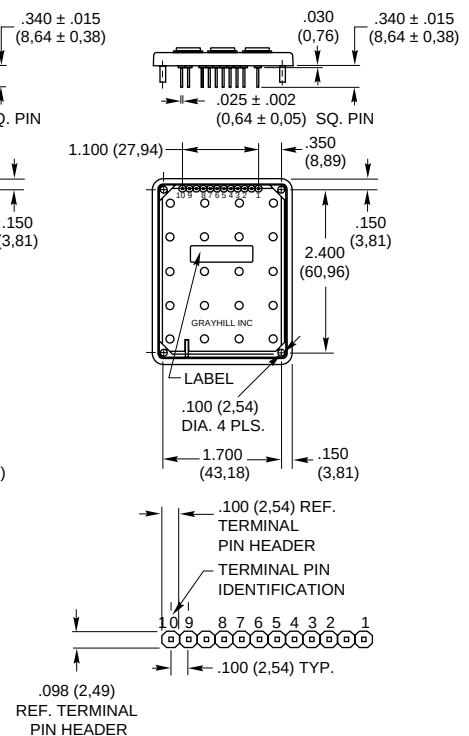
3x4 Front Mount Keyboard



Standard Versions

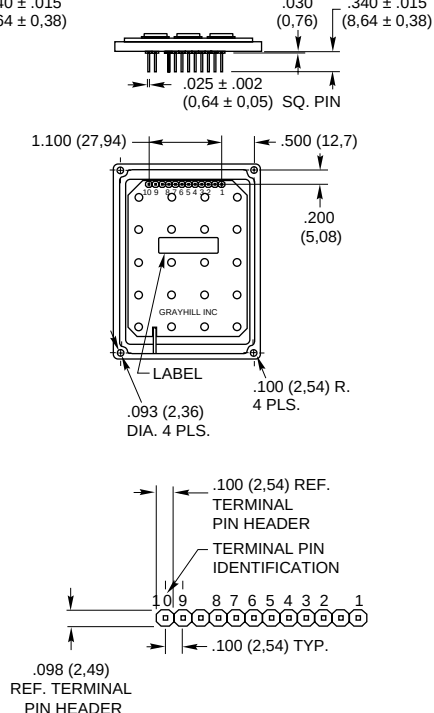


Shielded/Backlit Versions

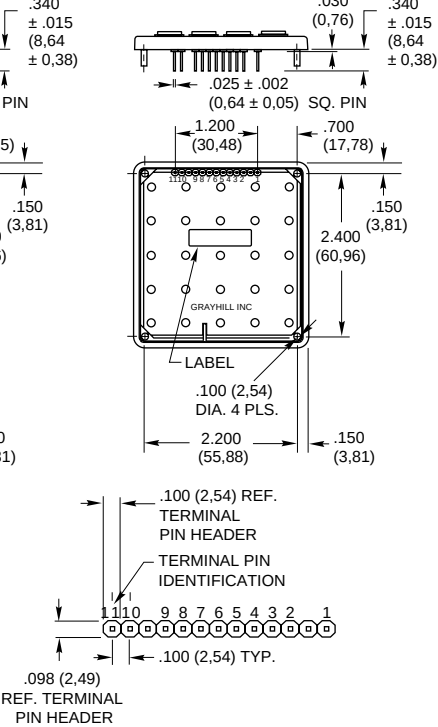


Keyboards and Keypads

Shielded/Backlit Versions

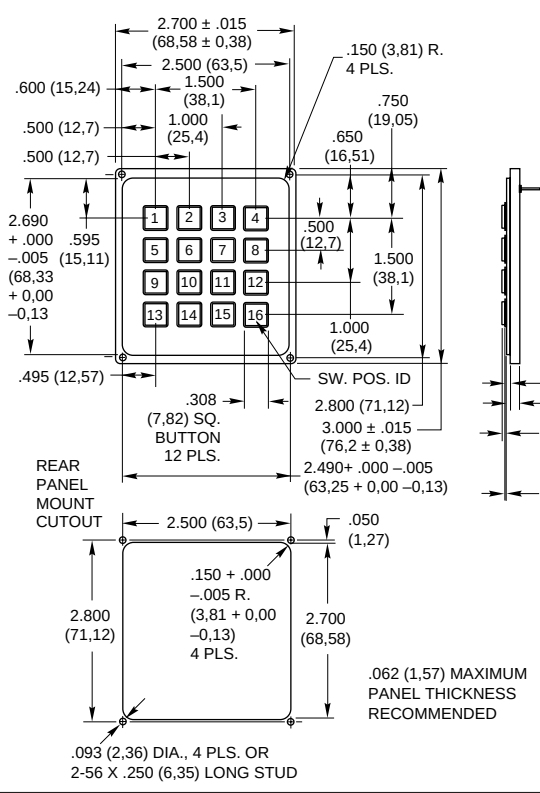


Shielded/Backlit Versions



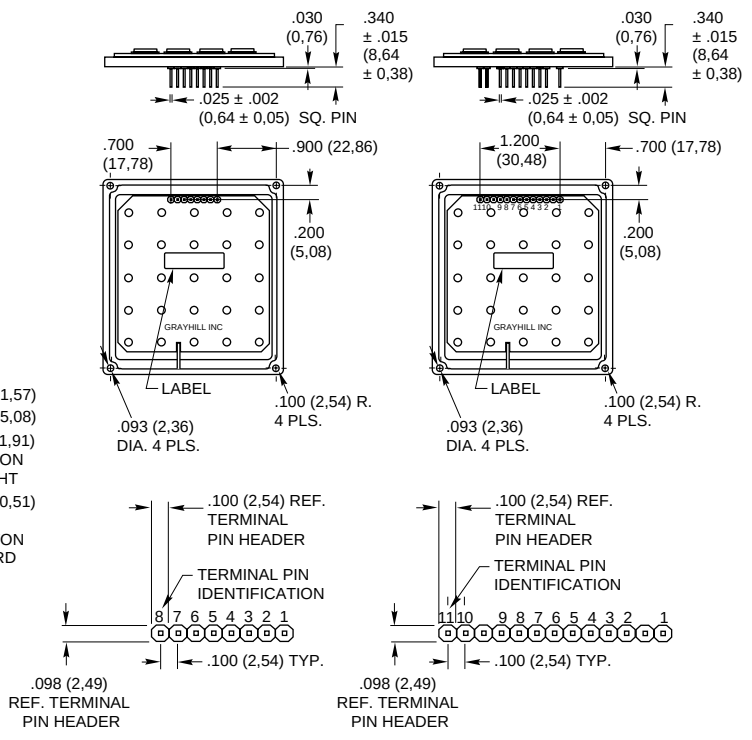
DIMENSIONS In inches (and millimeters)

4x4 Rear Mount Keyboard



Standard Versions

Shielded/Backlit Versions



CODE AND TRUTH TABLES

Dots in the chart indicate connected terminals when switch is closed.
Terminals are identified on the keyboard.

12 Button Keypads

3x4		MATRIX CODES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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16 Button Keypads

4x4		MATRIX CODES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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SPECIFICATIONS

Rating Criteria

Rating at 12 Vdc: 5 milliamps for .5 seconds

Contact Bounce: < 12 milliseconds

Contact Resistance: < 100 ohms (at stated operating force)

Voltage Breakdown: 250 Vac between components

Mechanical Operation Life: 1,000,000 operations per key

Insulation Resistance: > 10¹² ohms @ 500 Vdc

Push Out Force Per Pin: 5 lbs.

Operating Features

Travel: .040 minimum

Operating Force: 175 ± 40 grams

Operating Temperature: -30°C to +80°C

Material and Finishes

Terminal Pin: Phosphor bronze, solder-plated

PC Board: FR-4 glass cloth epoxy

Keypad: Silicone rubber, durometer 50 ± 5

Housing: ABS, cololac FR15

Housing Color: Black

Shielding Effectiveness

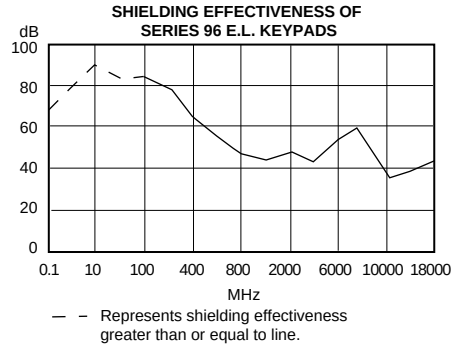
Results shown are typical for a standard Grayhill Series 84S keyboard. A conductive gasket will generally increase the shielding, depending on the size and shape of the gasket and its material. Data derived for E-Field Radiation.

Test Method:

Measurements were made with the keyboard mounted to a brass plate, which in turn was mounted to a shielded enclosure containing the receiving equipment. A signal generator provided the frequency source that was radiated from the transmitting antenna to the enclosed receiving antenna. The spacing between antennas was maintained constant throughout the frequency range. The effectiveness rating is determined by establishing a reference reading without obstruction between the two antennas and determining the difference between that reading and the test setup reading.

Note:

When measured in actual equipment, shielding effectiveness is determined by many factors. This method accurately represents the shielding effectiveness of the Grayhill Series 84S under Ideal test conditions.

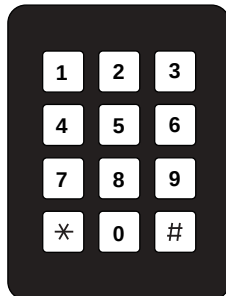


Frequency M Hz	Rating in dB
0.1	⊕66.2
10	⊕94.8
100	90.5
400	64.2
800	42.3
2,000	40.5
6,000	33.1
10,000	34.4
18,000	37.0

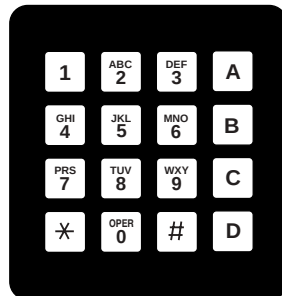
STANDARD LEGENDS

Available through Grayhill Distributors

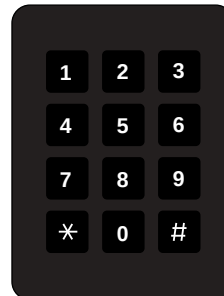
To order one of the configurations below, use the dash number shown here; select the keypad size and code, and order the part number with the appropriate legend dash number.



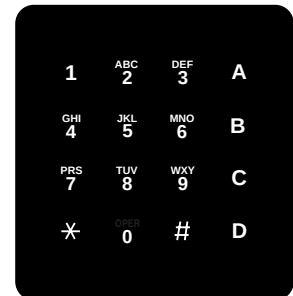
-102



-006

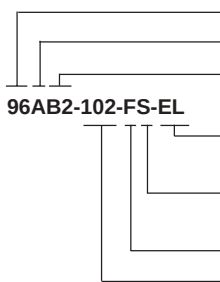


-152



-056

ORDERING INFORMATION



Grayhill Series Number

Keyboard Size: A = 3x4, B = 4x4

Circuitry: B2 = Matrix (terminal pin header)

E.L. Panel Backlighting Option

EL = Backlit, Blank = Non-backlit

EMI/RFI Shielding Option

S = Shielded, Blank = Non-shielded

Mounting Option: F = Front panel mount, R = Rear panel mount

Standard Legend Choices

12 Position legends

102 = Black legends on a white button

152 = White legends on a black button

16 Position legends

006 = Black legends on a white button

056 = White legends on a black button

Available from your local Grayhill Distributor.

For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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