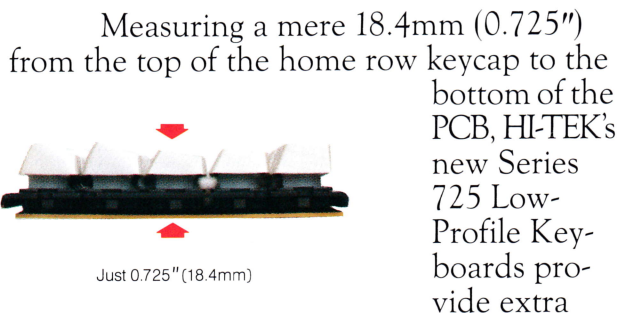


Series 725 Keyboards

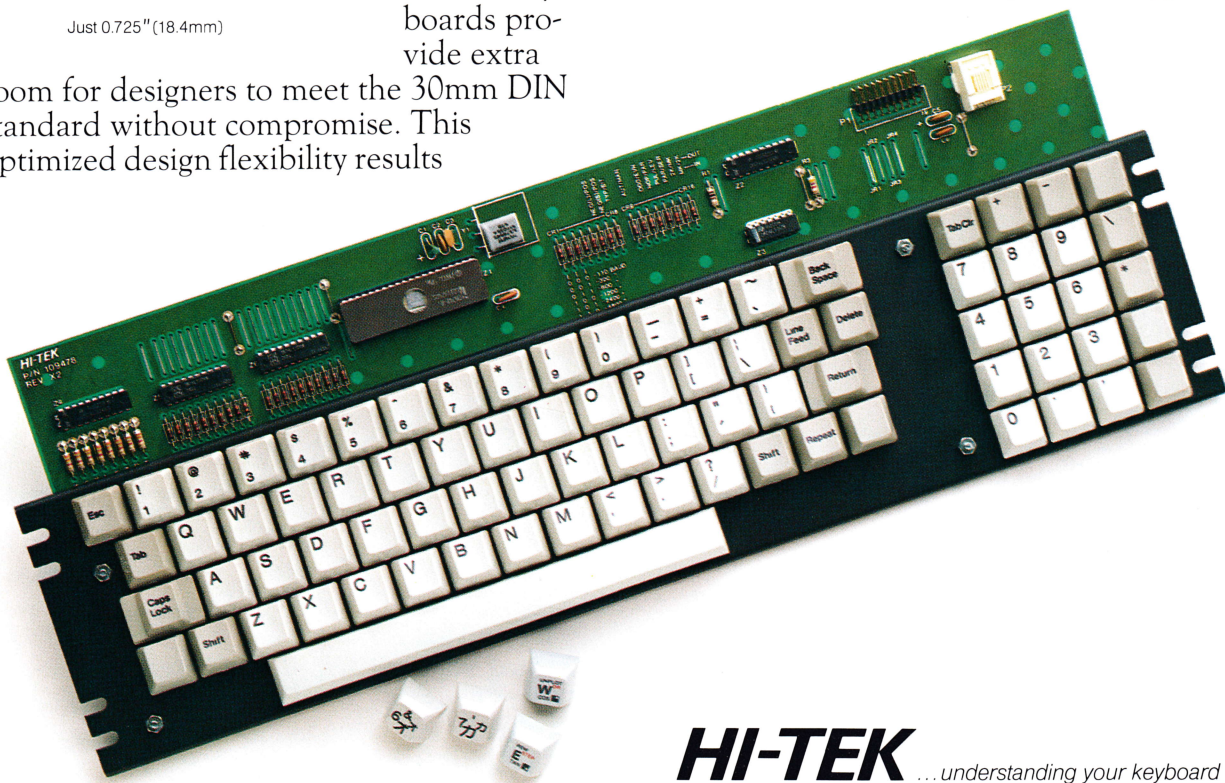
HYTEK Series 725 Low-Profile keyboards work...and work... and work...



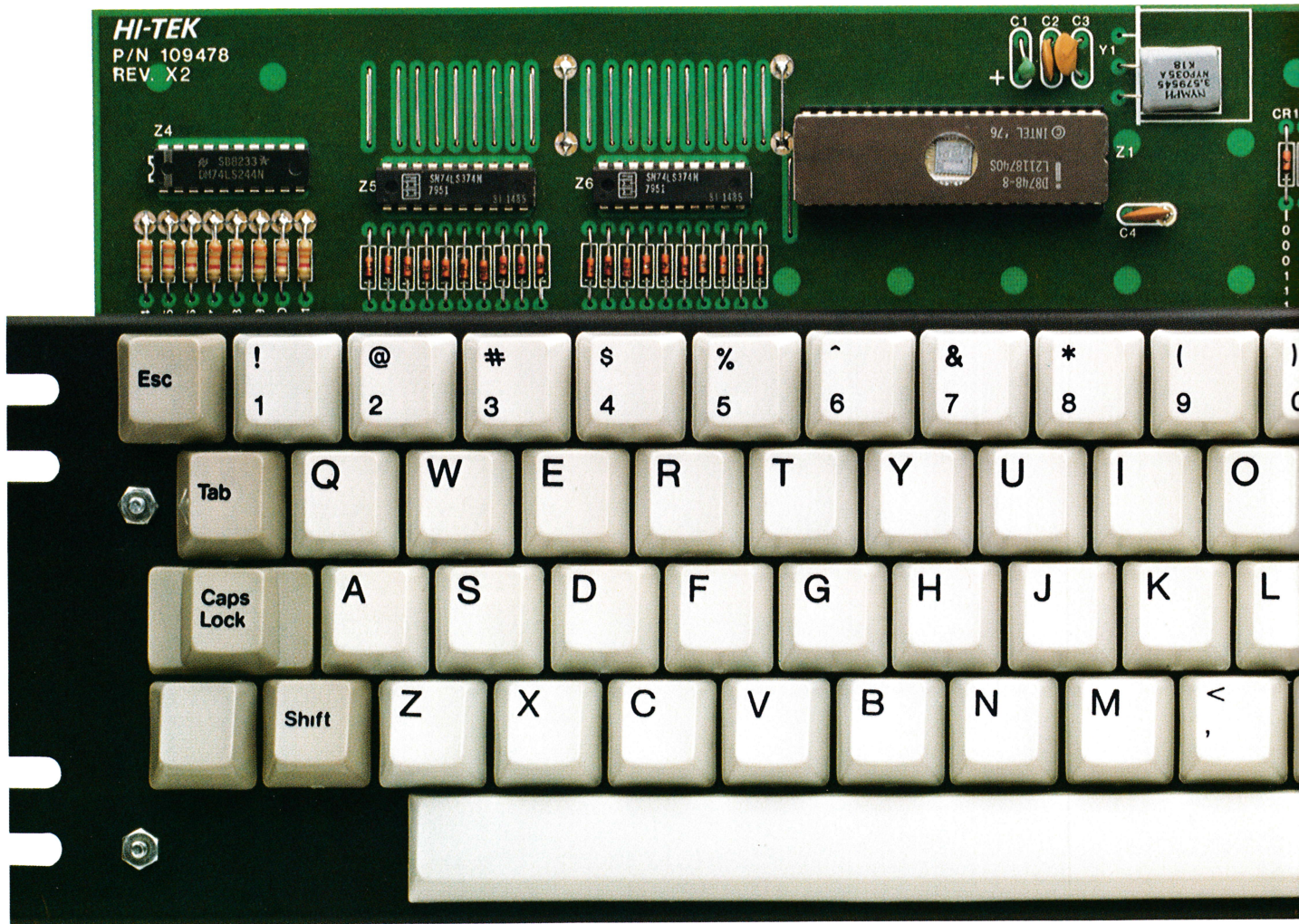
room for designers to meet the 30mm DIN standard without compromise. This optimized design flexibility results

in enhanced versatility for your mainframe, mini, micro or word processor. (See drawing, page 4)

The same reliable keystation design, smooth feel and full travel we use in our Standard Profile keyboards is found in our Series 725 Low-Profile Keyboards. Typical



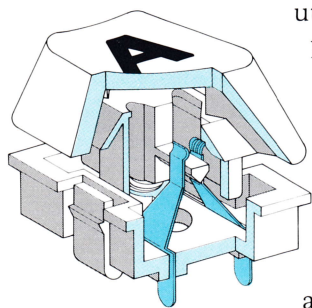
HI-TEK ... understanding your keyboard needs.



keyswitch life is up to 100 million cycles. And HI-TEK offers both tactile and linear feel keyswitches.

Our Low-Profile keyboards add reliability to your products. That's because HI-TEK has made 10 million keyboards in the past 10 years — over 600 million keystations.

HI-TEK's field-proven key-switch design utilizes a passive contact system which isolates the contact force from the actuation force. The



result is consistent switch performance. Reliability is further enhanced by using gold alloy inlaid contacts and our unique trifurcated contact design in which three

contact fingers assure switch closure — even if foreign particles pass through the contact area.

By incorporating integral jumpers into the switch contacts, we're able to fit fully encoded and assembled keyboards on a single-sided PCB resulting in substantial cost savings versus using double-sided PCB's.

Your choice... simple matrix, assembled or fully encoded. On encoded boards, the 8048 microprocessor family is used. The 8048's low cost makes it ideal for use in production quantities while the E-PROM version allows for early prototype design and pre-production quantities. For large, complex keyboard configurations, the 8049 with its additional memory is available.

IBM type sculptured keycaps give the Series 725 Low-Profile key-



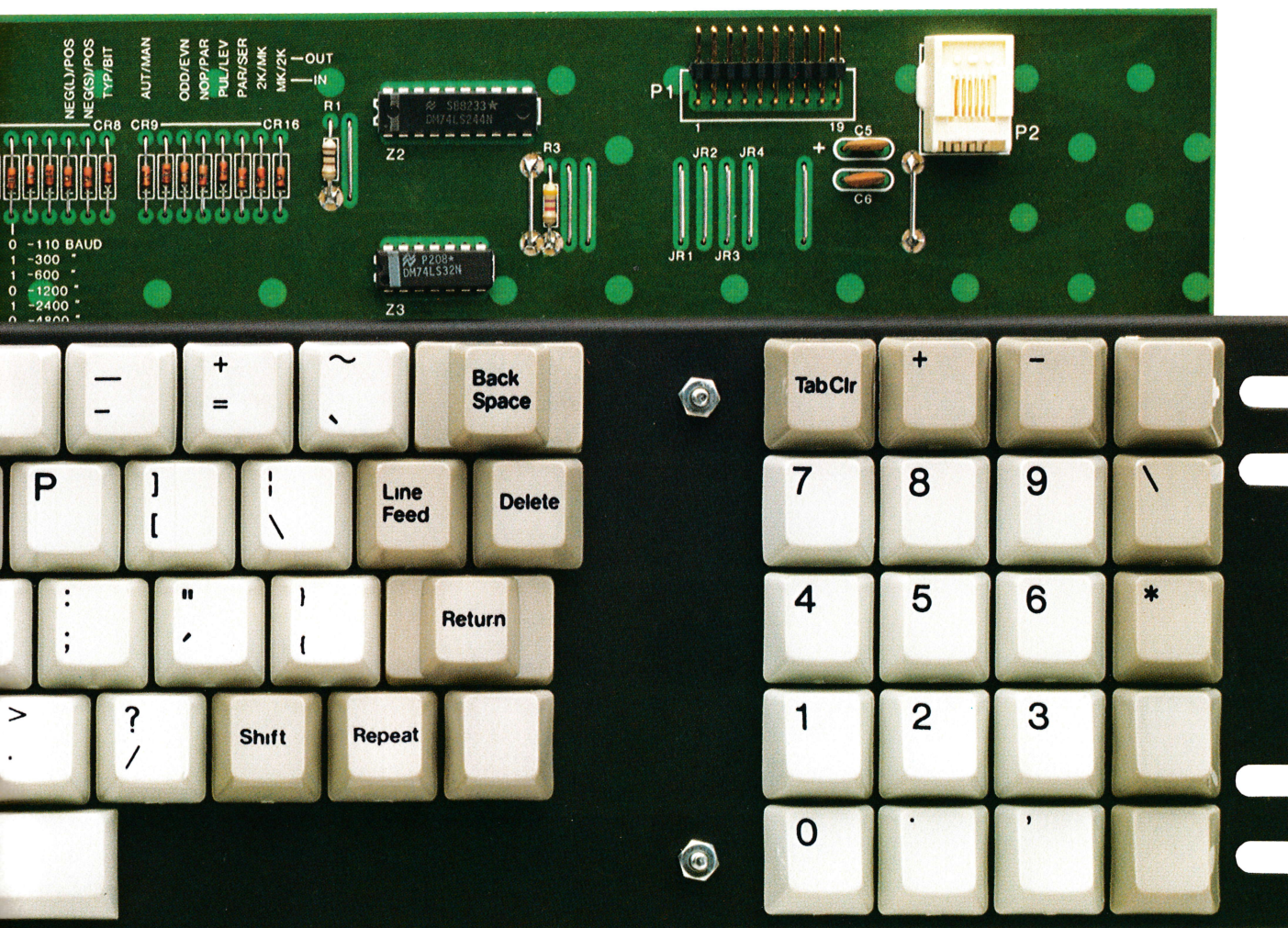
board a contemporary look. Providing additional flexibility in your system's appearance, HI-TEK offers two-shot molded and sublimation printed keycaps.

With sublimated printing, all legends on a full keyboard can be printed at one time, eliminating keycap misloads.

In this printing process, the die is absorbed right into the polyester keycap. In wear tests, sublimation printing has outperformed two-shot molded keycaps.

You can even design a legend or two yourself to distinguish your product from the competition. Sublimated printing allows detailed legends to be printed





on the top and front of a keycap in multiple colors.

Whether you need Series 725 Low-Profile or Standard Keyboards ... want them encoded or assembled ... require sublimated or two-shot molded keycaps—HI-TEK delivers. We've come to grips with what the industry needs, where it is going and the keyboards you need to market your products successfully.

Specifications

Profile

Nominal 0.725" (18.4mm) from center of home row keycap to bottom of PCB.

Mechanical

Keyswitch Travel—0.140" (3.56mm) nominal
Operating Movement (stroke to make)—0.070" (1.78mm) nominal

Operating Force

Momentary Action—2.0 oz \pm 0.5 oz (57g \pm 14g)
Alternate Action—3.0 oz \pm 0.5 oz (85g \pm 14g)
Spacebar—3.0 oz \pm 0.5 oz (85g \pm 14g)

Reliability

Momentary Action—Minimum 20 million operations each keystation

Feel

Linear or tactile feel available

Switch Wobble

Lateral movement shall not exceed 0.02" (0.5mm) in either axis when measured on the keycap legend surface

Environmental

Operating Temperature—32°F to 122°F (0°C to +50°C)
Storage Temperature—-40°F to +131°F (-40°C to +55°C)
Relative Humidity—0 to 95%

Materials

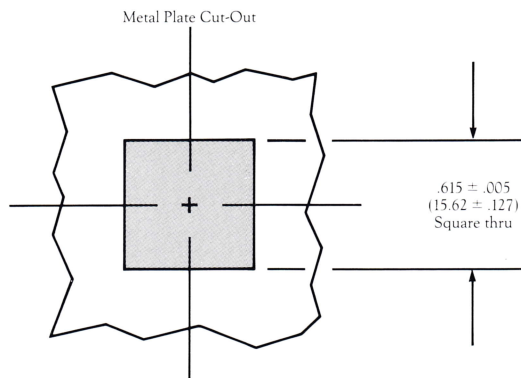
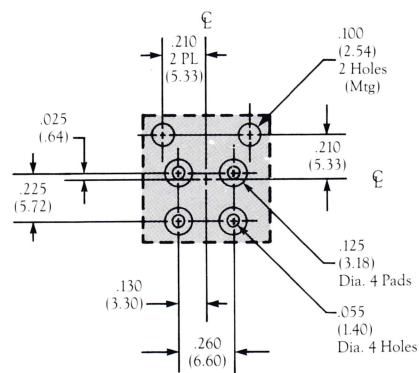
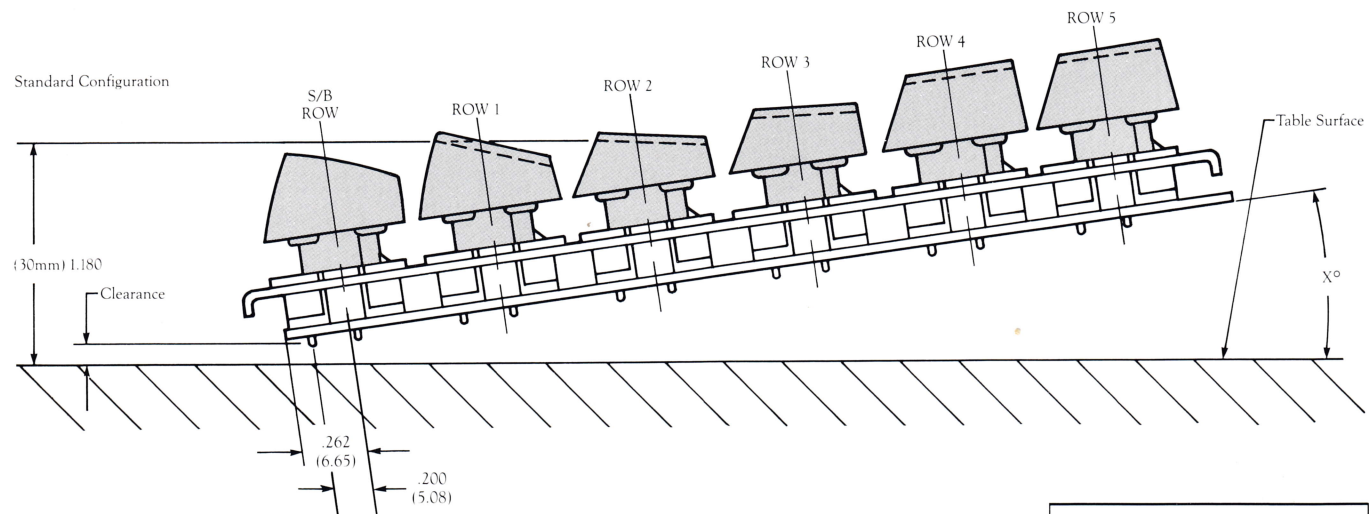
Contacts—Gold alloy inlay
Housing—Molded thermoplastic

Electrical

Contact Systems—Form A (SPST-NO), Solid contact, Normally Open
Contact Resistance—
Initial: 25 milliohms typical, 1 ohm maximum
Over life: 10 ohms maximum
Contact Bounce—
Typical: 0.250 mSec
Maximum: 2 mSec (initial)
Maximum: 5 mSec (end of life)
Rating—Dry circuit to 10 mA @ 5V DC resistive
Dielectric—500V RMS, 60 Hz

Bezel Clearance—.020" (.51 mm)

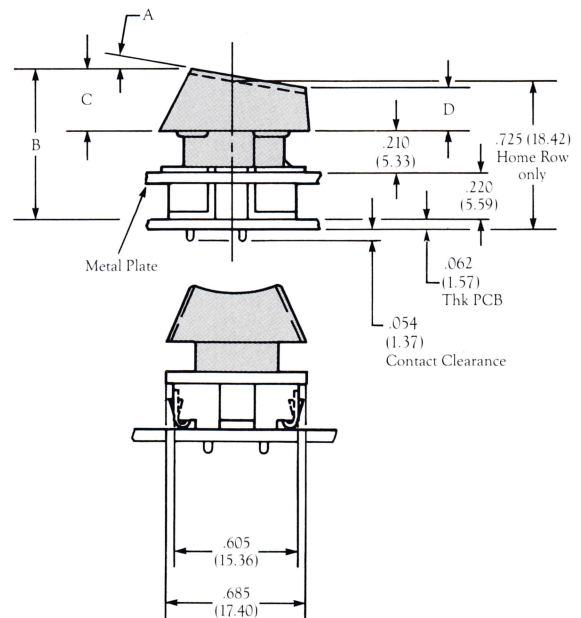
Keyswitch Dimensions



Angle/Clearance Table	
X°	Std. Config.
5°	.262" (6.65mm)
7°	.211" (5.36mm)
9°	.164" (4.17mm)
11°	.120" (3.05mm)
13°	.079" (2.01mm)
15°	.042" (1.07mm)

Series 725 Dimension Table				
Dim Row	A	B	C	D
S/B	18°	.825" (20.96mm)	.400" (10.16mm)	.230" (5.84mm)
1	18°	.825" (20.96mm)	.400" (10.16mm)	.230" (5.84mm)
2	10°	.725" (18.42mm)	.300" (7.62mm)	.200" (5.08mm)
3	5°	.725" (18.42mm)	.300" (7.62mm)	.250" (6.35mm)
4	0°	.785" (19.94mm)	.360" (9.14mm)	.360" (9.14mm)
5	0°	.785" (19.94mm)	.360" (9.14mm)	.360" (9.14mm)

Home Row



Specifications subject to change without notice. Patent Pending.



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