

BABCOCK**MODEL: DI07702**

DISPLAY PRODUCTS DIVISION

0.7" (17,8 mm), 7-DIGIT, ALPHANUMERIC GAS-PLASMA DISPLAY

Babcock's 7-Digit, 14-segment, Alphanumeric, Gas-Plasma Display is designed for coin-op pinball games. The flat display has a wide viewing angle and a bright neon-orange output and is easily read at distances up to 35 feet (10 meters). Legibility is assured by the 0.7-inch- high numbers, and bright, 160 fL output. The display has an attached, hermetically sealed, lead system for added protection in humid environments.

In most applications, this part is a direct substitute for any of the following industry standard models:

CROSS REFERENCE GUIDE

CHERRY	DISPLAY'S INC
W307-1W70	AR07702

FEATURES

- 0.7 inch (17.8 mm) digit height
- Alphanumeric, 14-segment digits
- 7-character field width
- Decimal point and comma in seven character positions
- Superior lead integrity and reliability
- Luminance – 160 fL (551 cd/m²) at 1/7 duty cycle

SPECIFICATIONS*Absolute Maximum Ratings*

PARAMETER	MIN	MAX	UNITS
Voltage Differential between any to terminals		125	V(dc)
Cathode Current Density Current (Duty Cycle = 1/16)		500	mA/in ²
Storage Temperature	-40	+85	°C
Operating Temperature	-10	70	°C

Recommended Operating Conditions

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS
Anode Supply Voltage	Vbb	170	180	210	V(dc)
Anode Voltage Swing			60		V(dc)
Anode-to-Cathode Voltage Drop at Ik(TYP)	Vop		145		V(dc)
Current, Cathode "b" segment (Duty Cycle = 1/7)	Ik	3.0	3.4	3.8	mA
Current, "b" segment (Duty Cycle = 1/16)(1)	Ik	3.6	4.1	4.5	mA
Current, Keep-alive (2)	Ika	25	50	100	µA
Anode on-time			500		µs
Interdigit Blanking (Duty Cycle = 1/7)			50		µs
Refresh Period(3)			10	16	ms
Initial Ionization Time				5	Sec

- (1) Typical Luminance is 80 fL at 1/16 duty cycle.
- (2) Use of the Keep-alive cathode is recommended for all applications.
- (3) Scan direction is from left-to-right.

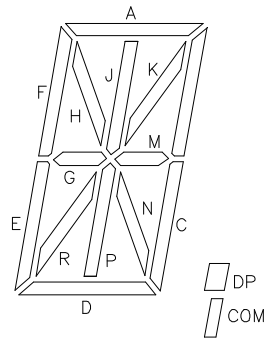
SPECIFICATIONS ARE FOR REFERENCE ONLY

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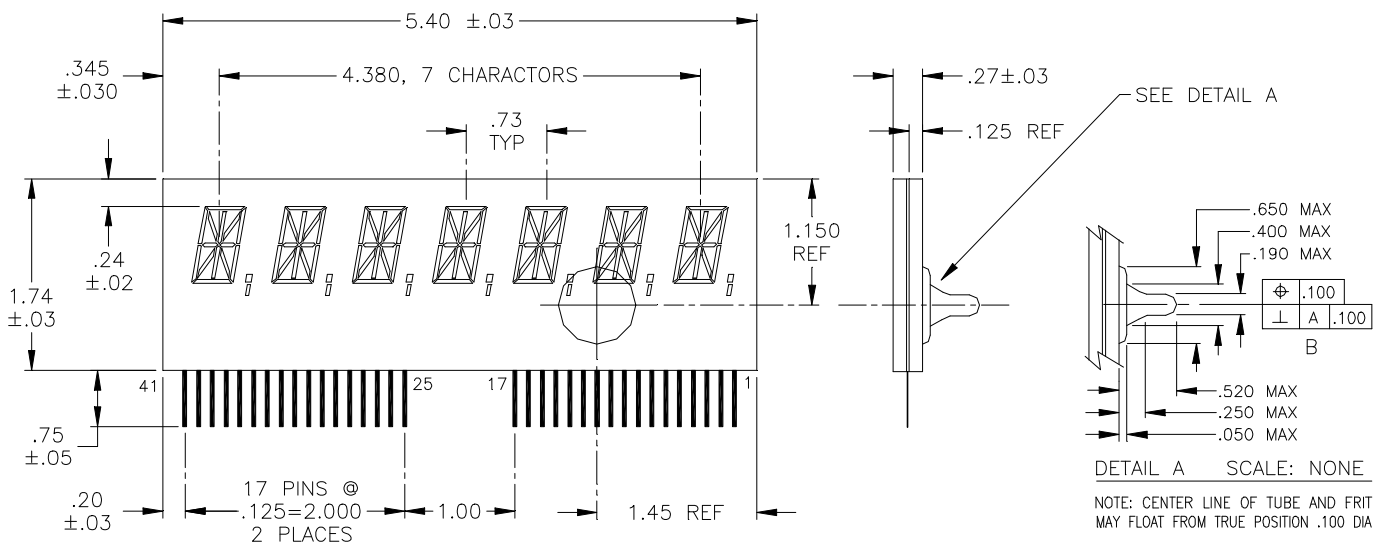
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Terminal/Assignments

Terminal No.	Segment/Function	Terminal No.	Segment/Function
1	a	16	p
2	h	17,25	Anode-4
3,5	Anode-1	18-24	N/C
4	b	26	m
6	K.A. Cathode (R)	27,29	Anode-5
7	K.A. Anode (R)	28	c
8	Comma	30	r
9	Anode-2	31,33	Anode-6
10	Dec. Pt.	34	K.A. Cathode (L)
11	d	35	K.A. Anode (L)
12	e	36	g
13	Anode-3	37,39	Anode-7
14	dec	40	f
15	Anode-3	41	j



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