| *itron*® Vacuum Fluorescent Display | Type Name DC20026H2 | Date 09/19/86 |
|---|---|---|
| | | No. T-R |

Specification

**T E N T A T I V E**

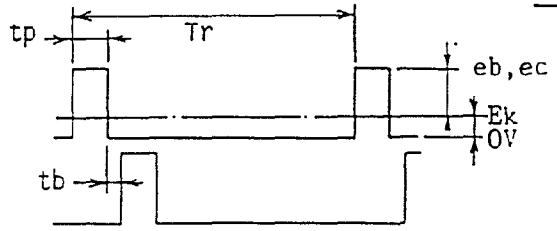
## 1. Ratings

| | | Minimum | Typical | Maximum | Unit |
|---|---|---|---|---|---|
| Operating Temperature | To | -40 | - | 185 | °C |
| Storage Temperature | Ts | -50 | - | +85 | °C |
| Filament Voltage | Ef | 4.7 | 5.2 | 5.7 | Vac #1 |
| Grid Voltage | ec | - | 35.0 | 42.0 | Vp-p #2 |
| Anode Voltage | eb | - | 35.0 | 42.0 | Vp-p #2 |
| Color of Illumination: | | | | | |

## 2. Electrical Characteristics

| Item | Symbol | Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Filament Current | If | Ef= 5.2 Vac #1<br>eb=ec= 0V | 140.0 | 156.0 | 172.0 | mAac |
| Grid Current #3<br>Per One Grid | ic | Ef= 5.2 Vac #1<br>ec= 35.0 Vp-p#2<br>eb= 35.0 Vp-p#2<br>Duty=1/24<br>tp= 100 μsec. | - | 6.0 | 12.0 | mAp-p |
| Anode Current #3<br>Per One Character | ib | | - | 4.0 | 8.0 | mAp-p |
| Luminance | L | | 100 | - | - | fL |
| Grid Cut-Off Voltage #4 | Ecco | Ef= 5.2 Vac #1<br>Eb= 35.0 Vdc | -5.0 | - | - | Vdc |
| Anode Cut-Off #4<br>Voltage | Ebco | Ef= 5.2 Vac #1<br>ec= 35.0 Vp-p#2 | -3.0 | - | - | Vdc |

3. Note #1: Effective value at 50 or 60 Hz sine-wave.
#2: Peak-to-peak voltage.
#3: Unless specified, the anode and grid current is measured per each grid, when all anodes turned on.
#4: With respect to the filament center-tap.




## 4. Recommendation

Ef= 5.2 Vac (Sine-wave or pulse)
Ek= 5.0 Vdc (Cathode bias)
eb=ec= 35.0 Vp-p
Duty = tp/Tr = 1/24

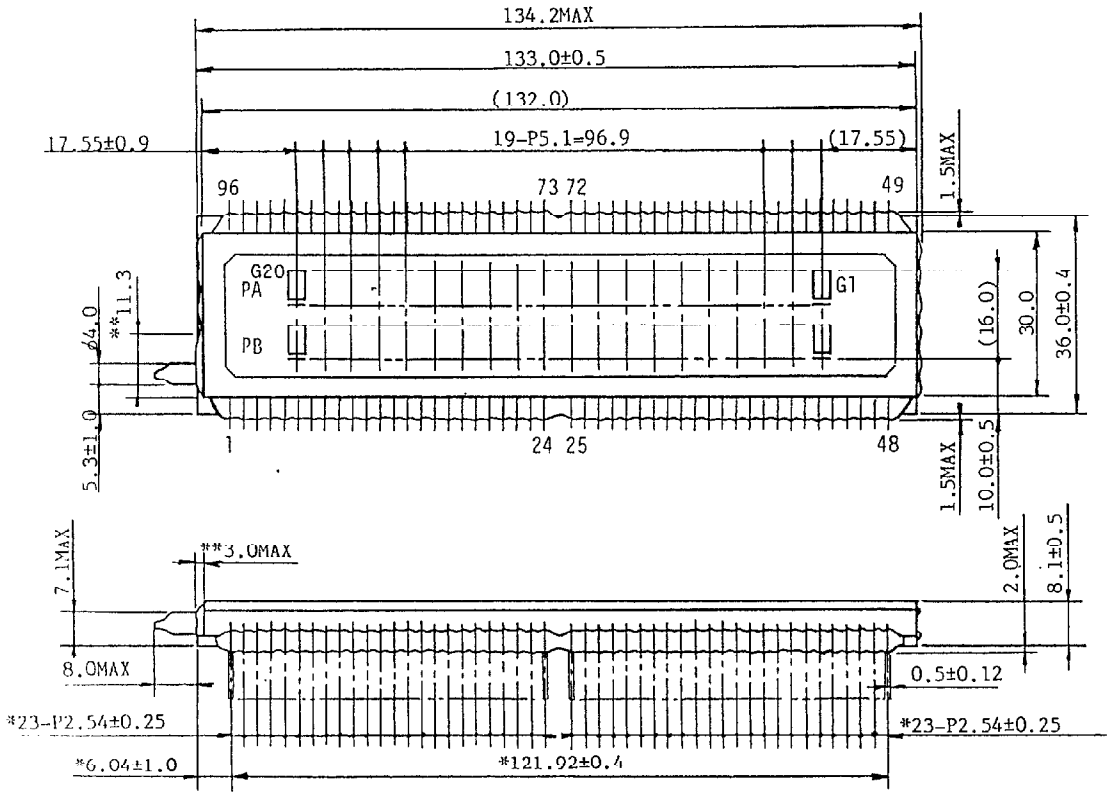
tp= μsec.
tb= μsec. (Interdigit blanking)

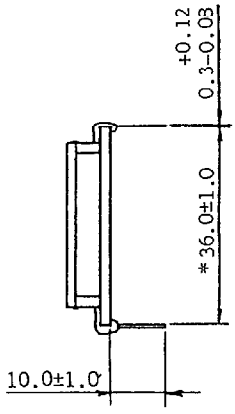
This specification is subject to change without notice. 064-6-121.0A E


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Unit: mm
( ):Reference only

TYPE: DC20026H2



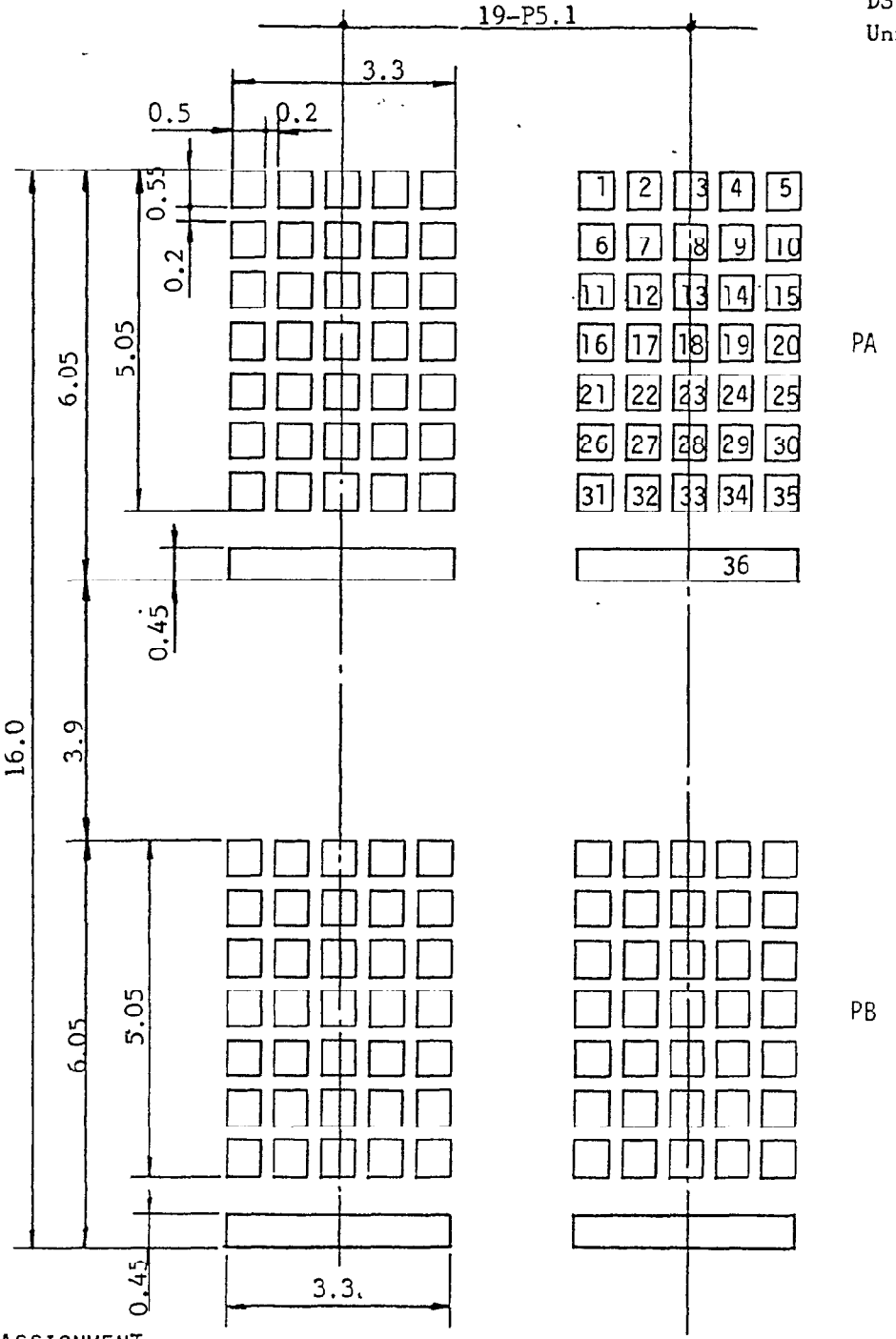




NOTE * Within 3 mm frombottom of the glass substrate
** Max. 3 mm extra frit glass at this area.

DC20026H2: Display Pattern & Pin Assignment



Unit: mm




PIN ASSIGNMENT

| Pin No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Assignment | F | PA24 | PA25 | PA26 | PA27 | PA28 | PA29 | PA30 | PA31 | PA32 | PA33 | PA34 | PA35 | PA36 | G20 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| G19 | G18 | G17 | G16 | G15 | G14 | G13 | G12 | G11 | G10 | G9 | G8 | G7 | G6 | G5 | G4 | G3 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | |
| G2 | G1 | PB36 | PB35 | PB34 | PB33 | PB32 | PB31 | PB30 | PB29 | PB28 | PB27 | PB26 | PB25 | PB24 | F | |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |
| I.C | PB23 | PB22 | PB21 | PB20 | PB19 | PB18 | PB17 | PB16 | PB15 | PB14 | PB13 | PB12 | PB11 | PB10 | PB9 | PB8 |
| 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 |
| PB7 | PB6 | PB5 | PB4 | PB3 | PB2 | PB1 | PA1 | PA2 | PA3 | PA4 | PA5 | PA6 | PA7 | PA8 | PA9 | PA10 |
| 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | | | |
| PA11 | PA12 | PA13 | PA14 | PA15 | PA16 | PA17 | PA18 | PA19 | PA20 | PA21 | PA22 | PA23 | I.C | | | |

I.C : INTERNAL CONNECTION (Don't use I.C Pins.)