

Specification

1. Ratings

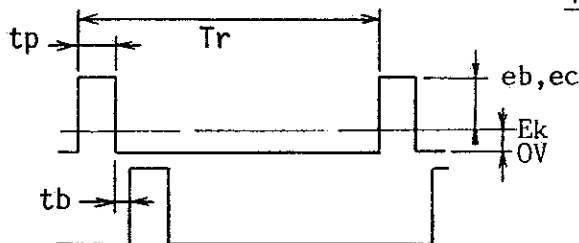
		Minimum	Typical	Maximum	Unit
Operating Temperature	To	-40	-	+85	°C
Storage Temperature	Ts	-50	-	+85	°C
Filament Voltage	Ef	5.8	6.4	7.0	Vac #1
Grid Voltage	ec	-	35.0	42.0	Vp-p #2
Anode Voltage	eb	-	35.0	42.0	Vp-p #2
Color of Illumination:	Blue green				

2. Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Filament Current	If	Ef= 6.4 Vac #1 eb=ec= 0V	108.0	120.0	132.0	mAac
Grid Current #3	ic	Ef= 6.4 Vac #1 ec= 35.0 Vp-p#2 eb= 35.0 Vp-p#2	-	7.0	12.0	mA <sub>p-p</sub>
Anode Current #3	ib	Duty=1/24 tp= 100 μsec.	-	7.5	14.0	mA <sub>p-p</sub>
Luminance	L		100	-	-	fL
Grid Cut-Off Voltage #4	Ecco	Ef= 6.4 Vac #1 Eb= 35.0 Vdc	-7.0	-	-	Vdc
Anode Cut-Off Voltage #4	Ebco	Ef= 6.4 Vac #1 ec= 35.0 Vp-p#2	-5.0	-	-	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= 6.4 Vac (Sine-wave or pulse)  
 Ek= 7.0 Vdc (Cathode bias)  
 eb=ec= 35.0 Vp-p  
 Duty =  $t_p/T_r = 1/24$   
 $t_p =$  μsec.  
 $t_b =$  μsec. (Interdigit blanking)

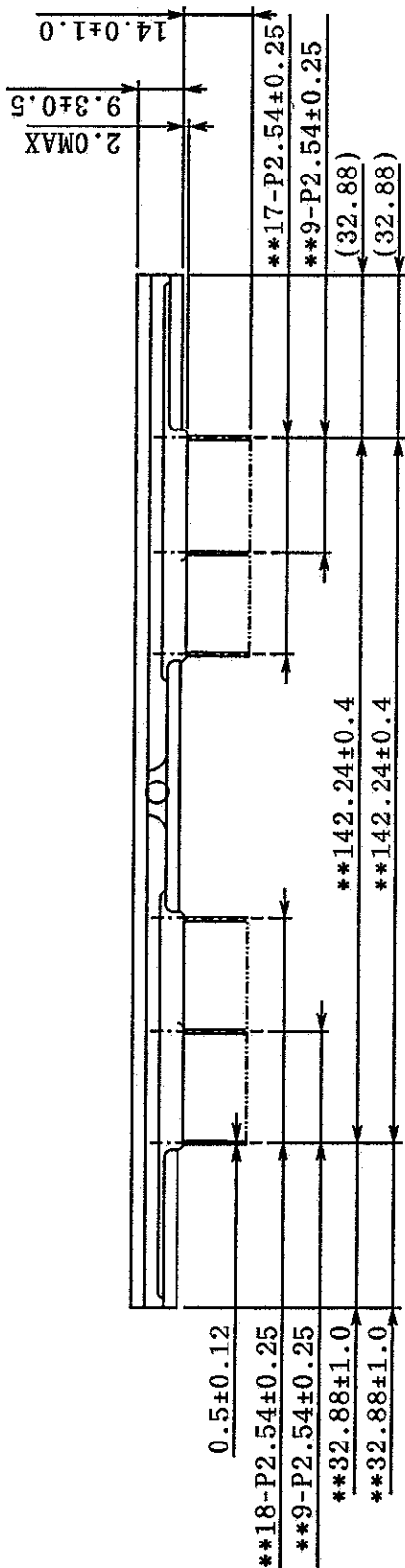
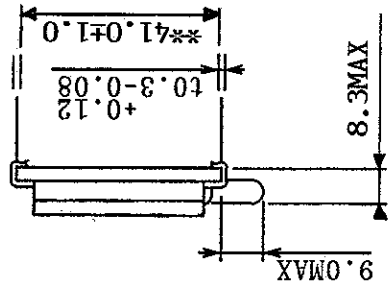
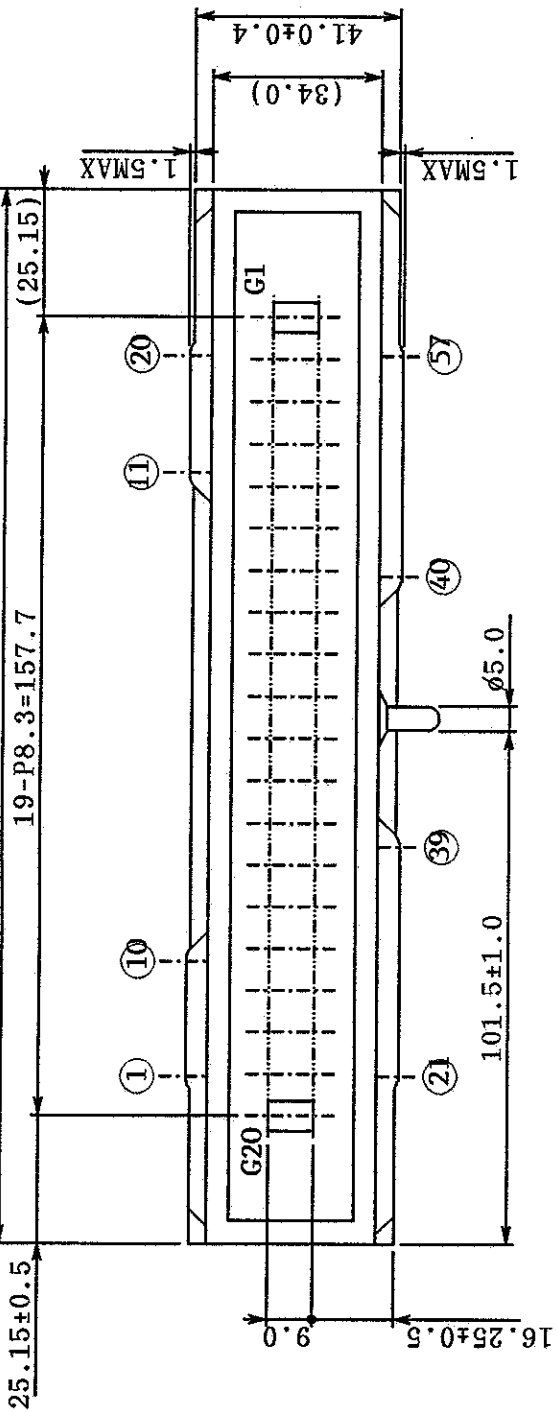
This specification is subject to change without notice. 1.18-3-186.4A

Unit : mm  
 Scale 1:1.5  
 ( ) : 参考寸法

\*209.7MAX  
 208.0±0.5

19-P8.3=157.7

(25.15)



\*フリットガラスのみだしを含んだ最大寸法

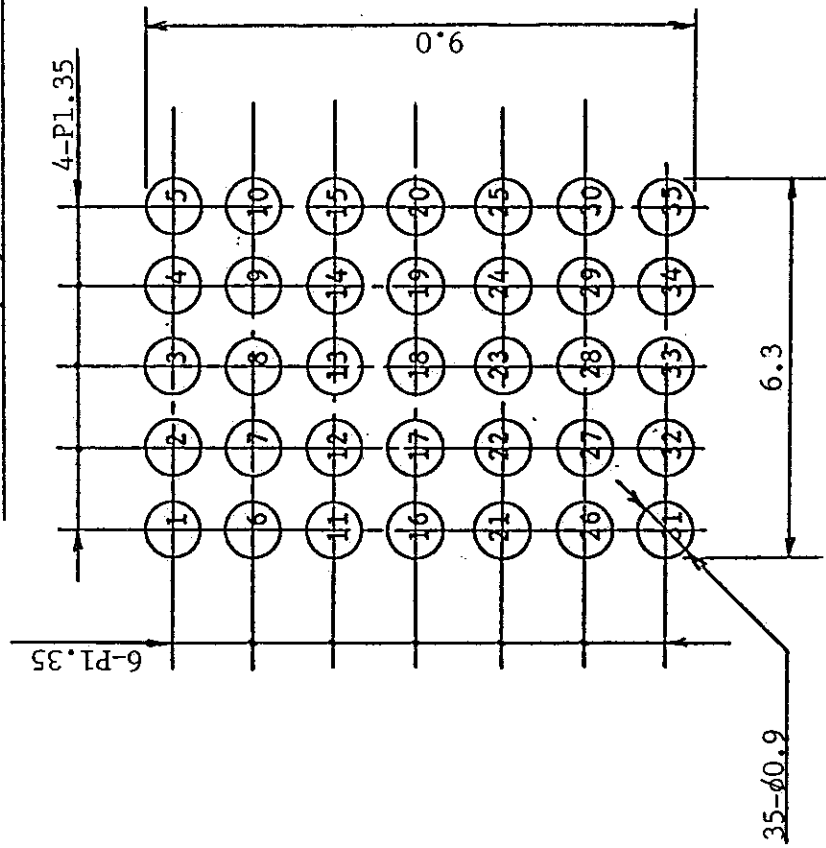
\*\* 基板底面より3 mmの位置の寸法とする

\*Included extra frit glass.

\*\*Within 3 mm from bottom of the glass substrate.

DC209H2 : Display Pattern & Pin Assignment

Sheet 4 of 4  
Unit : mm



Pin Assignment

Pin No.	Assignment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
F	P17	P15	P13	P11	P9	P7	P5	P3	P1	P2	P4	P6	P8	P10	P12	P14	P16	P18	F		
21	P21	P23	P25	P27	P29	P31	P33	P35	G20	G19	G18	G17	G16	G15	G14	G13	G12	G11	G10		
41	G8	G7	G6	G5	G4	G3	G2	G1	G2	G1	G2	G1	G2	G1	G2	G1	G2	G1	G2	G1	G2
G9	G8	G7	G6	G5	G4	G3	G2	G1	P34	P32	P30	P28	P26	P24	P22	P20					