

User's Guide

D0120SD-20-2004F

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

—————For product support, contact

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Vacuum Fluorescent Display Specification

PART NUMBER: D0120SD-20-2004F

FEATURES: 1 Row x 20 Digits, 5x7 Dot Matrix

APPLICATION: Character Display (DotMatrix)

RATINGS: Below

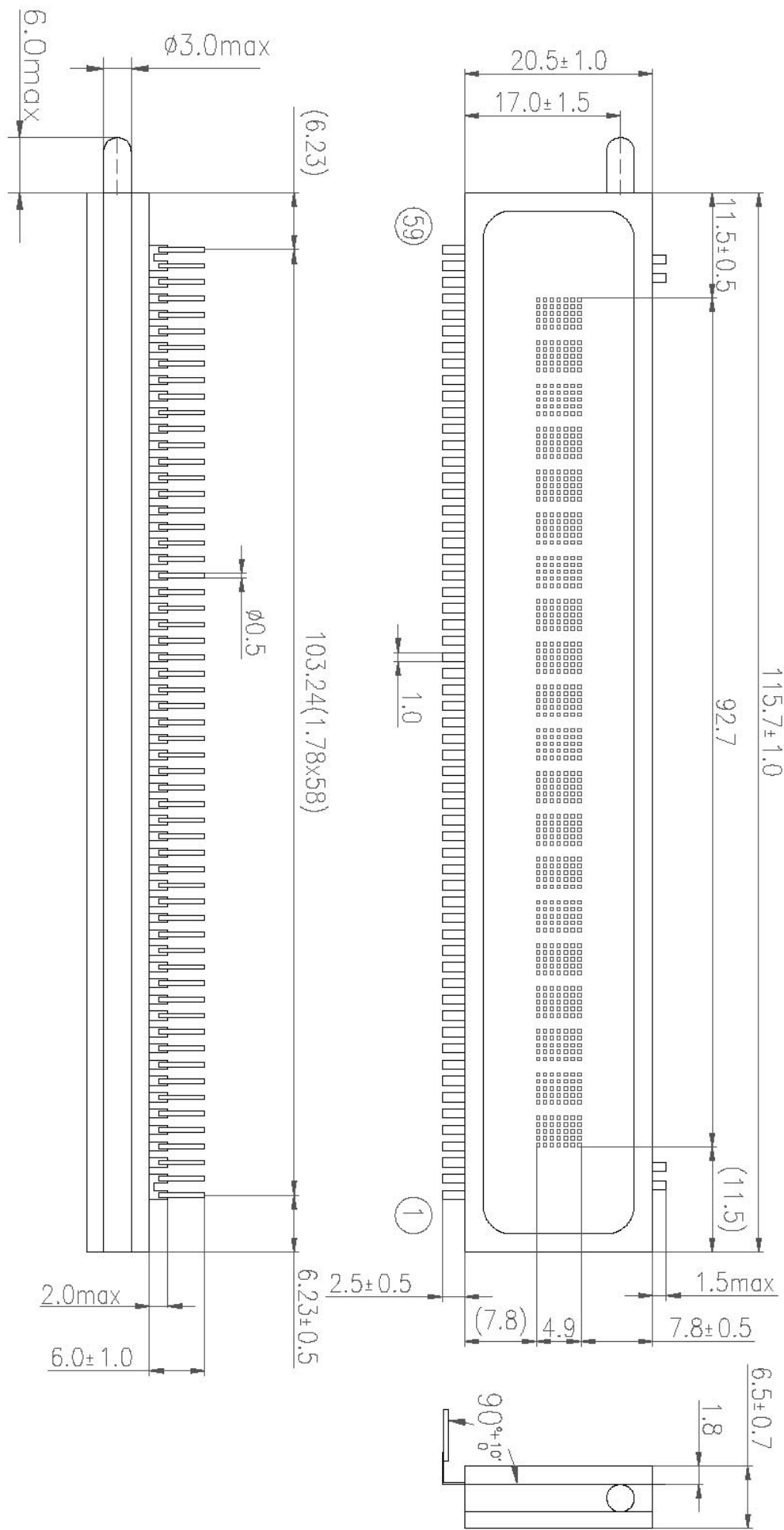
Outer Dimensions	Panel Length	P.L.	115.7	mm
	Panel Height	P.H.	20.5	mm
	Panel Thickness	P.T.	6.5	mm
Leads	Lead Pitch	L.P.	1.78	mm
	Lead Out	-	SIL	
Character Size	Character Height	C.H.	4.9	mm
	Character Width	C.W.	3.4	mm
Item	Symbol	Min.	Recommended	Max. Unit
Filament Voltage	Ef	4.1	4.5	5.0 Vac
Peak Grid Voltage	ec	-	36.0	40.0 Vp-p
Peak Anode Voltage	eb	-	36.0	40.0 Vp-p
-	-	-	-	-
Duty Cycle	Du	-	1/23	-
Pulse Width	tp	-	100	- uS
Operating Temperature	Topr	-40	-	+ 85 C
Storage Temperature	Tstg	-50	-	+ 95 C
Color of Illumination	Green			

Electrical Characteristics

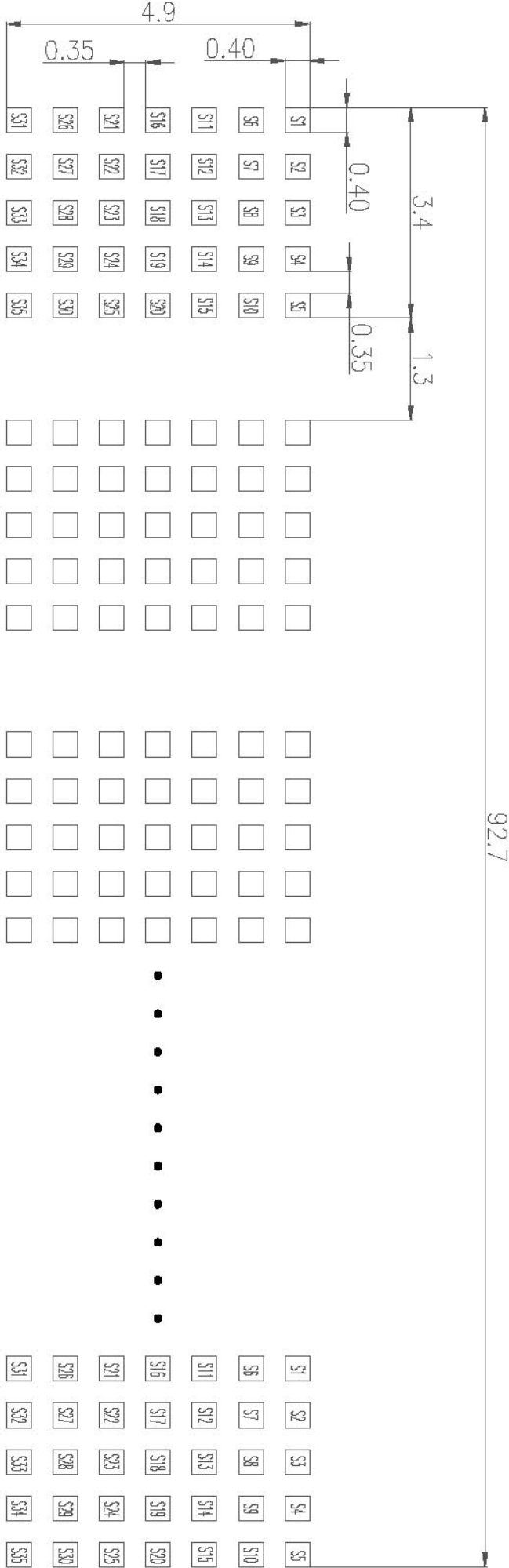
Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	If -	Ef = 4.5 Vac eb = ec = 0	74.0 -	82.0 -	90.0 -	mAac -
Anode Current	ib/1G~20G - - - - -	Ef = 4.5 Vac eb = 36.0 Vp-p ec = 36.0 Vp-p Du = 1/23 tp = 100 uS	-	3.5	7.0	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
Grid Current	ic/1G~20G - - - -		-	3.5	7.0	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
			-	-	-	mA _{p-p}
Luminance	L(G) -		350 (102)	700 (204)	-	cd/m ² fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 4.5 Vac Eb = 36.0 Vdc	-5.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 4.5 Vac ec = 36.0 Vp-p Du = 1/23 tp = 100 uS	-5.0	-	-	Vdc

Drive mode: Dynamic
State

1: Outline drawing (Unit:mm)

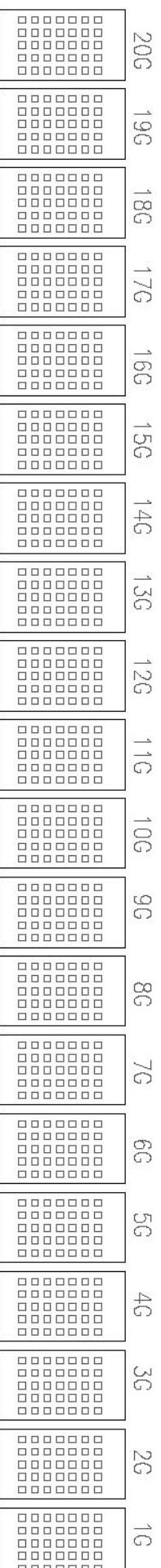


2: Display Pattern



Green: All (X=0.250, Y=0.440)

3: Anode Connection & Grid Assignment



PIN CONNECTIONS

[illegible]

NOTE: F: Filament G: Grid NP: No Pin NC: No Connection

Mouser Electronics

Authorized Distributor

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