

User's Guide

D0105MT-24-0504N

VFD- **RoHS Compliant**

(Vacuum Fluorescent Display Module)

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Vacuum Fluorescent Display Specification

PART NUMBER: **D0105MT-24-0504N**

FEATURES: 5 Digits, 7-Segmented, Clock / Instrumentation

APPLICATION: Character Display (7-Segmented)

RATINGS: Below

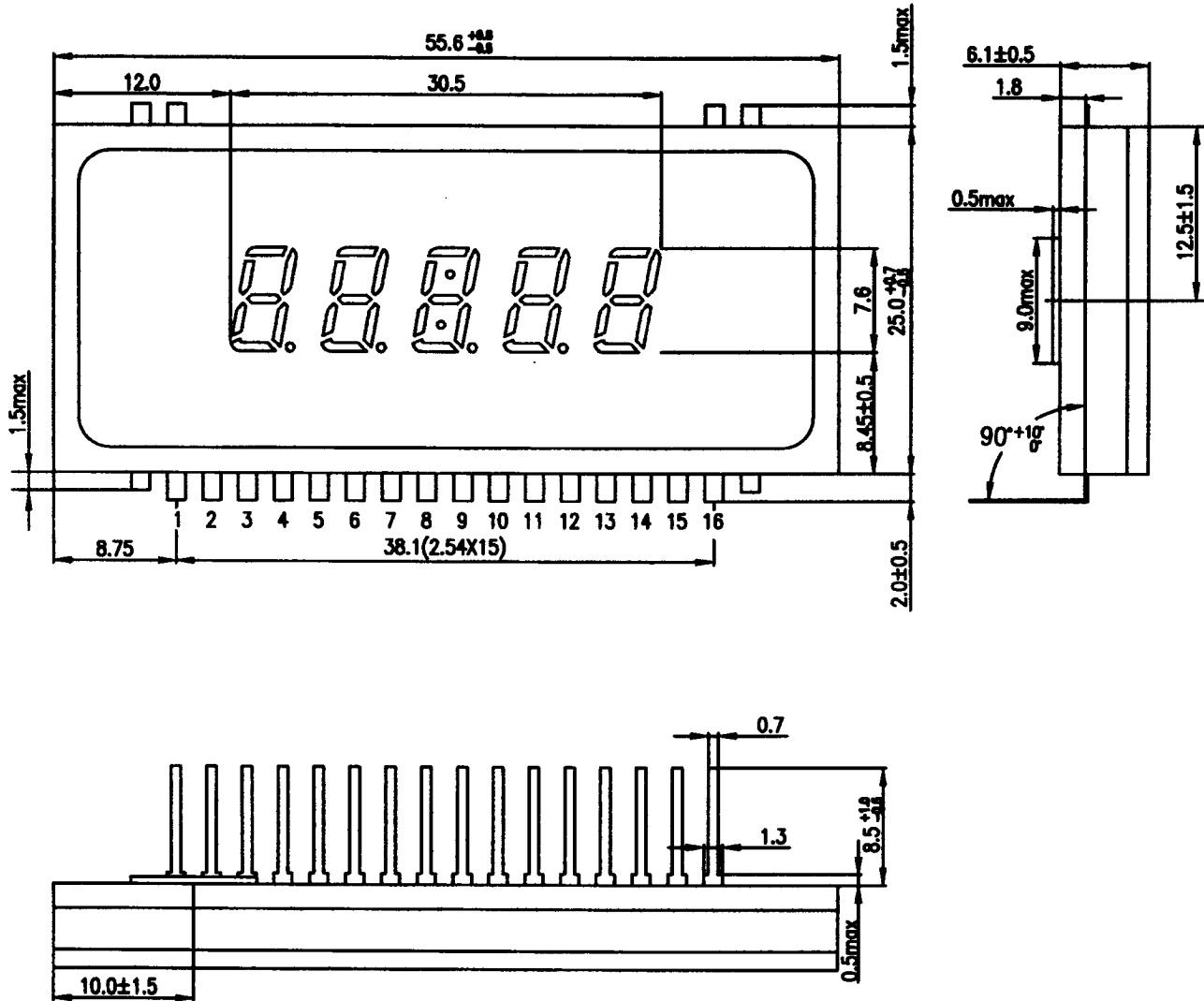
Outer Dimensions	Panel Length	P.L.	55.6	mm	
	Panel Height	P.H.	25.0	mm	
	Panel Thickness	P.T.	6.1	mm	
Leads	Lead Pitch	L.P.	2.54	mm	
	Lead Out	-	SIL		
Character Size	Character Height	C.H.	7.6	mm	
	Character Width	C.W.	3.6	mm	
Item	Symbol	Min.	Recommended	Max.	Unit
Filament Voltage	Ef	1.5	1.7	1.9	Vdc
Peak Grid Voltage	ec	-	24.0	27.0	Vp-p
Peak Anode Voltage	eb	-	24.0	27.0	Vp-p
Cut-off Bias	Ek	-	-	-	Vdc
Duty Cycle	Du	-	1/7.5	-	-
Pulse Width	tp	-	100	-	uS
Operating Temperature	Topr	-20	-	+ 70	C
Storage Temperature	Tstg	-55	-	+ 80	C
Color of Illumination	Green				

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**Electrical
Characteristics**

Item	Symbol	Test Condition	Min.	Typical	Max.	Unit
Filament Current	if	Ef = 1.7 Vdc	67.5	75.0	82.5	mAdc
	-	eb = ec = 0	-	-	-	-
Anode Current	ib/1G~5G	Ef = 1.7 Vdc eb = 24.0 Vdc ec = 24.0 Vdc Du = 1/7.5 Tp = 100 uS	-	3.5	7.0	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
Grid Current	ic / 1G~5G		-	4.0	8.0	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
	-		-	-	-	MAp-p
Luminance	L(G)		700	1400	-	cd/m ²
	-		(204)	(409)	-	fL
Luminance Ratio	Lmin/Lmax		50	-	-	%
Grid Cut-off Voltage	Ecco	Ef = 1.7 Vdc Eb = 24.0 Vdc	-2.0	-	-	Vdc
Anode Cut-off Voltage	Ebco	Ef = 1.7 Vdc ec = 24.0 Vp-p Du = 1/7.5 Tp = 100uS	-2.0	-	-	Vdc

Outline Drawing (Unit:mm)

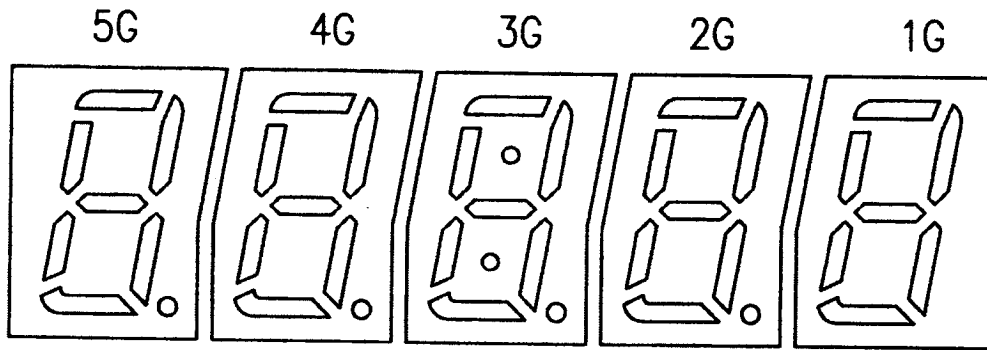


(PIN CONNECTION)

(PIN NO.)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(CONNECTION)	F(-)	g	f	5G	e	4G	d	col	3G	Dp	c	2G	b	1G	a	F(+)

(Note): F+,F-: (Filament) a~g,col,Dp: (Anode) 1G~5G: (Grid)

(Display Pattern and Grid Assignment)



Green(x=0.250,y=0.430) :

