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## User's Guide

# D0105MT-24-0504N

# **VFD- RoHS Compliant**

(Vacuum Fluorescent Display Module)

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For product support, contact

**Newhaven Display International**  
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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

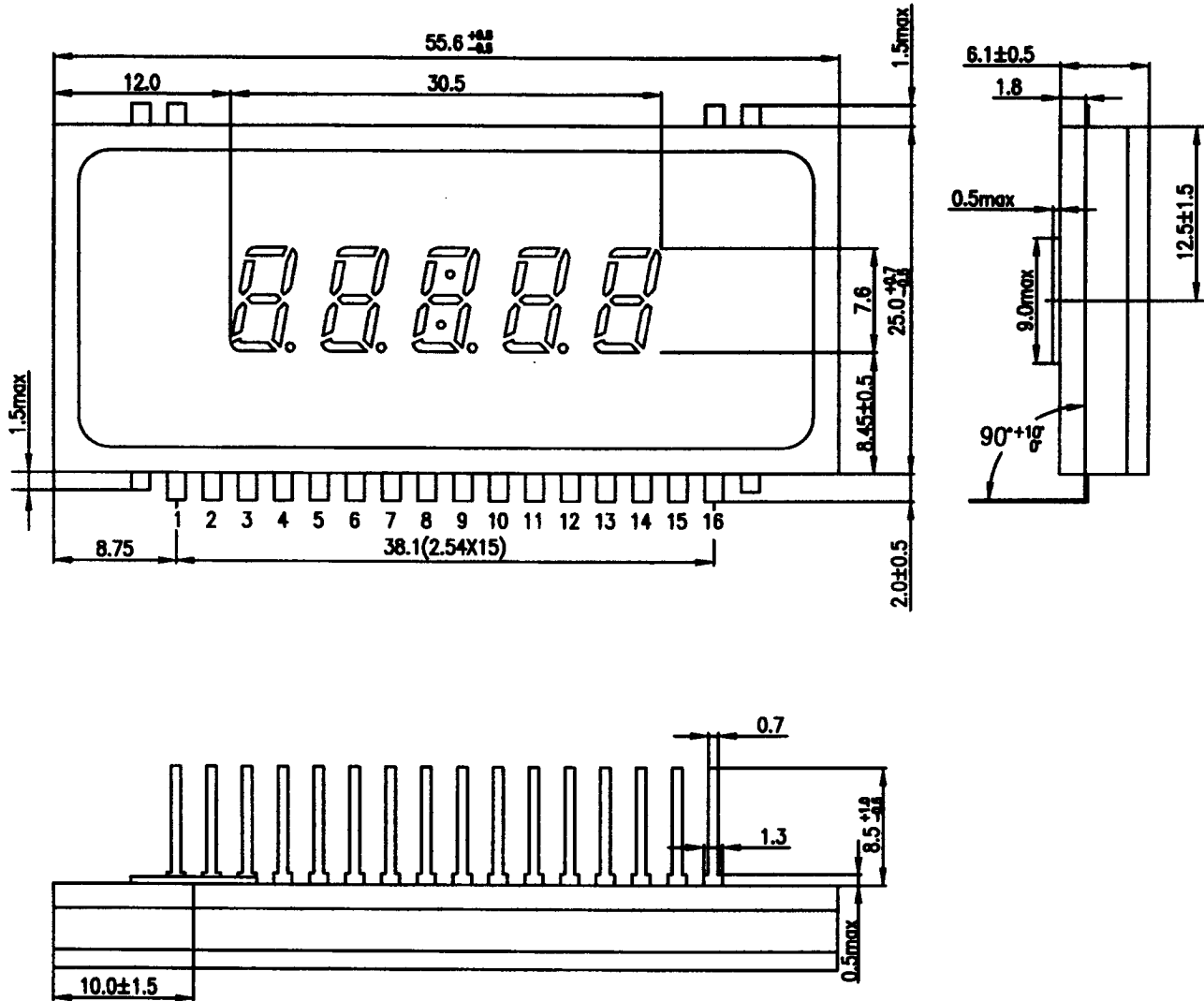
<b>Outer Dimensions</b>	Panel Length	P.L.	55.6	mm	
	Panel Height	P.H.	25.0	mm	
	Panel Thickness	P.T.	6.1	mm	
<b>Leads</b>	Lead Pitch	L.P.	2.54	mm	
	Lead Out	-	SIL		
<b>Character Size</b>	Character Height	C.H.	7.6	mm	
	Character Width	C.W.	3.6	mm	
<b>Item</b>	<b>Symbol</b>	<b>Min.</b>	<b>Recommended</b>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

**D0105MT-24-0504N**

**Electrical  
Characteristics**

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

Outline Drawing (Unit:mm)

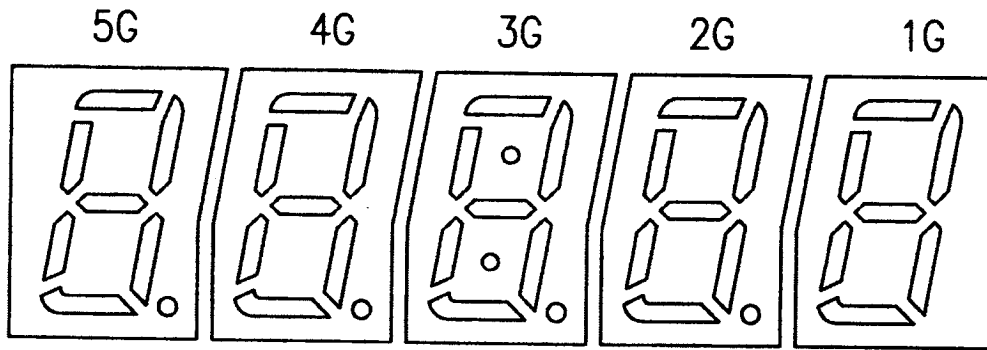


(PIN CONNECTION)

(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) :

