

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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User's Guide

D0104MT-24-0503

VFD- RoHS Compliant

(Vacuum Fluorescent Display Module)

————For product support, contact

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Vacuum Fluorescent Display Specification

PART NUMBER: D0104MT-24-0503

FEATURES: 4 Digits, 7-Segmented, Clock

APPLICATION: Character Display (7-Segmented)

RATINGS: Below

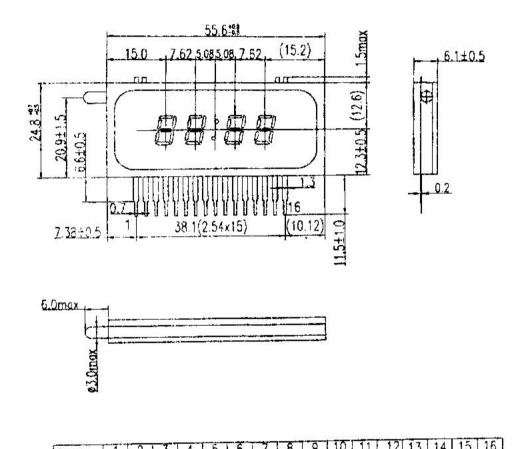
	Panel Length		P.L.	55.6	mm			
Outer Dimensions	Panel Height		P.H.	24.8	mm			
	Panel Thickr	ness	P.T.	6.1	mm			
Leads	Lead Pitch		L.P.	2.54	mm			
	Lead Out		-	SIL				
Character Size	Character Height		C.H.	7.6	mm			
	Character W	idth	C.W.	5.4	mm			
Item	Symbol	Min.	Recommended	Max.	Unit			
Filament Voltage	Ef	1.53	1.7	1.87	Vdc			
Peak Grid Voltage	ec	-	24.0	35.0	Vp-p			
Peak Anode Voltage	eb	-	24.0	35.0	Vp-p			
Cut-off Bias	Ek	-	-	-	Vdc			
Duty	Du	-	1/ 7.5	-	-			
Cycle								
Pulse Width	tp	-	80	-	uS			
Operating Temperature	Topr	-20	-	+ 70	С			
Storage Temperature	Tstg	-55	-	+ 80	С			
Color of Illumination		Green						

D0104MT-24-0503

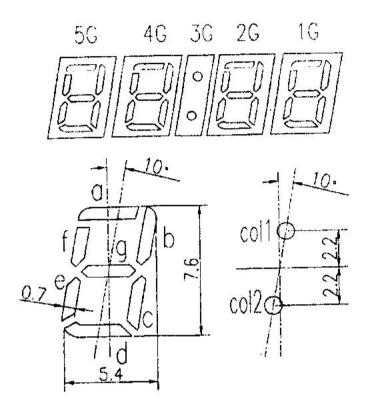
Electrical Characteristics

	Symbol	Test Condition	Min.	Typical	Max.	Unit
Item				"		
Filament Current	lf	Ef = 1.7 Vdc	70.0	78.0	86.0	mA
	-	eb = ec = 0	-	-	-	-
	11 /40 00 40	EC 4.7.11		1.0	0.0	
Anode Current	ib/1G,2G,4G, 5G		-	1.8	3.6	mAp-p
	lb/3G	eb = 24.0 Vp-p	-	-	-	mAp-p
	-	ec = 24.0 Vp-p	-	-	-	mAp-p
	-	Du = 1/7.5	-	-	-	mAp-p
	-	tp = 80 uS	-	-	-	mAp-p
		Ek = 2Vdc				
Grid Current	ic/1G,2G4G, 5G		-	1.8	3.6	mAp-p
	lc/3G		-	1.5	3.0	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
	-		-	-	-	mAp-p
	L(G)		686	1440	-	cd/m ²
Luminance	-		(200)	(420)		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	(-20)	-	-	Vdc
		Du = 1/7.5 tp = 80 uS				

Outline Drawing (Unit:mm)



Display Pattern And Grid Assignment



(color of illumination)

(Green):(x=0.250,y=0.440)