



型号 Type No.: VFD33-0303F

用途 Application: 汽车空调 car air-con.

外形尺寸 Outer Dimensions

长 Panel Length 102.0±1.0 mm

宽 Panel Height 33.5±1.0 mm

厚 Panel Thickness 8.0±0.7 mm

引出端子 Lead

端子间距 Lead Pitch 2.54 mm

端子引出形式 Lead Out 单列折弯 Single Bending Pin

参数 Ratings

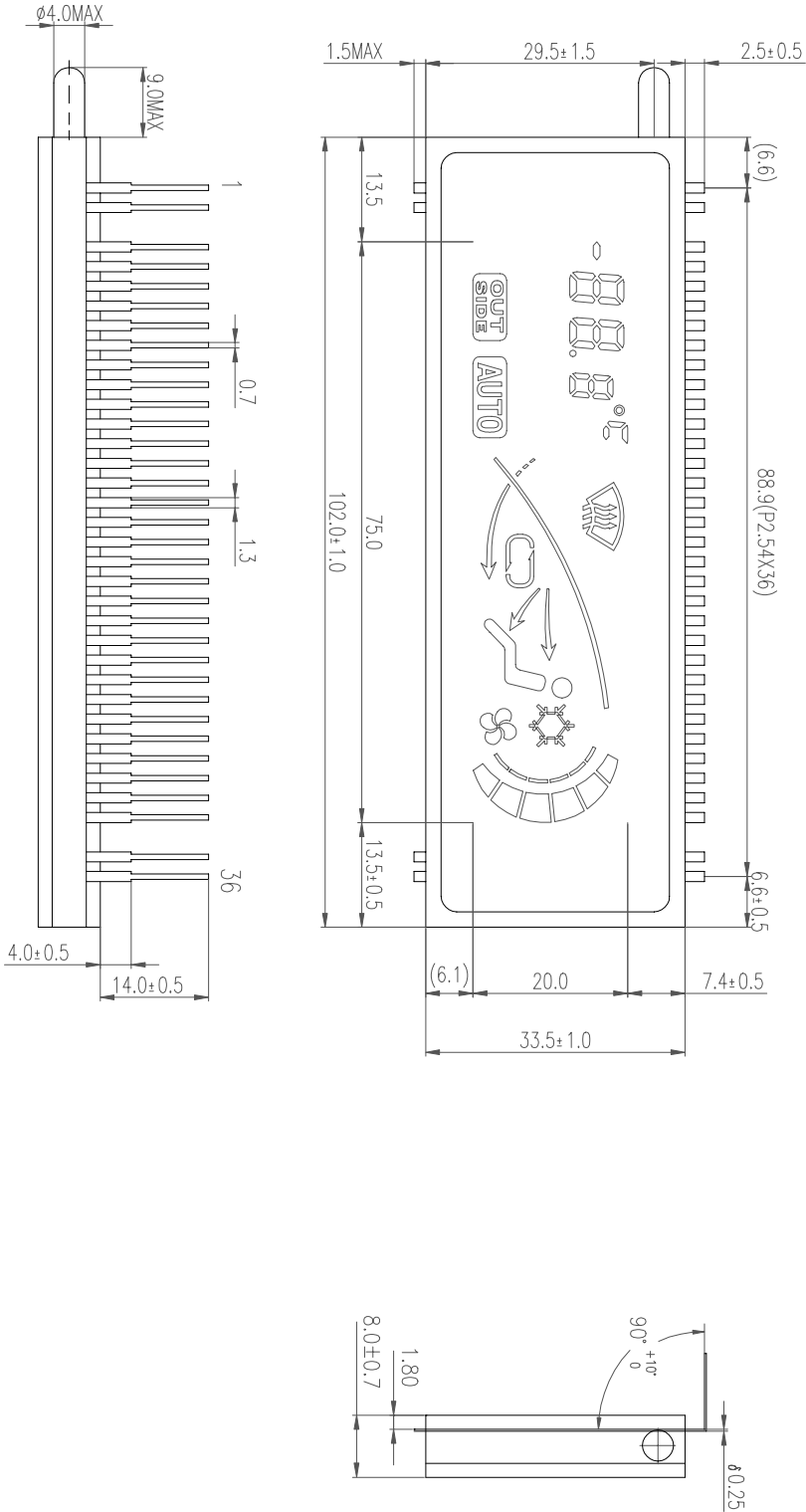
项 目 Item	符 号 Symbol	最小值 Min	推荐值 Recommended	最大值 Max	单位 Unit
灯丝电压 Filament Voltage	Ef	3.3	3.7	4.1	Vdc
栅极电压 Grid Voltage	ec	15.0	18.0	21.0	Vp-p
阳极电压 Anode Voltage	eb	15.0	18.0	21.0	Vp-p
占空系数 Duty Factor	Du	—	1/3	—	—
脉冲宽度 Pulse Width	tp	—	100	—	μs
工作温度 Operating Temp	Top	-40	—	+85	℃
储存温度 Storage Temp	Tstg	-55	—	+85	℃
发 光 颜 色 Color of Illumination	绿 Green 红 Red				

项 目 Item	符 号 Symbol	测试条件 Test Condition	最小值 Min	典型值 Typical	最大值 Max	单位 Unit
灯丝电流 Filament Current	If	Ef=3.7 Vdc eb=ec=0	225.0	250.0	275.0	mAdc
阳极电流 Anode Current	ib/1G	Ef=3.7 Vdc eb=18.0 Vp-p ec=18.0 Vp-p Du=1/3 tp=100 μs (笔段全亮)	—	17.0	34.0	mAp-p
	ib/2G		—	8.0	16.0	mAp-p
	ic/3G		—	5.0	10.0	mAp-p
	—		—	—	—	mAp-p
	—		—	—	—	mAp-p
栅极电流 Grid Current	ic/1G		—	20.0	40.0	mAp-p
	ic/2G		—	10.0	20.0	mAp-p
	ic/3G		—	5.0	10.0	mAp-p
	—		—	—	—	mAp-p
	—		—	—	—	mAp-p
亮度 Luminance	L(G)		750 (219)	1500 (438)	—	cd/m ² (fL)
	L(R)		75 (22)	150 (44)	—	cd/m ² (fL)
	—		—	—	—	cd/m ² (fL)
	—		—	—	—	cd/m ² (fL)
位间亮度比 Luminance Ratio	Lmin/Lmax		50	—	—	%
栅极截止电压 Grid Cut-off Voltage	Ecco	Ef=3.7 Vdc Eb=18.0 Vdc	-4.0	—	—	Vdc
阳极截止电压 Anode Cut-off Voltage	Ebco	Ef=3.7 Vdc ec=18.0 Vp-p Du=1/3 tp=100 μs	-2.0	—	—	Vdc

注：驱动方式 动态

Drive mode: Dynamic state

附图 1：外形图 Outline Drawing (Unit:mm)

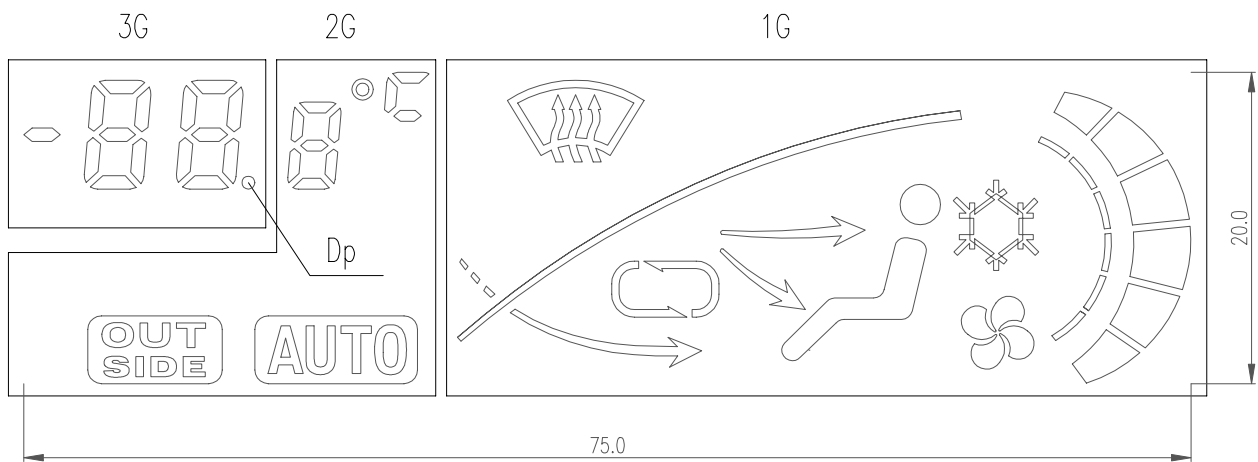


管脚连接 (PIN CONNECTION)

端子序号 (PIN NO.)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
连接 (CONNECTION)	F(-)	F(-)	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
端子序号 (PIN NO.)	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
连接 (CONNECTION)	P16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3G	2G	1G	NP	F(+)	F(+)

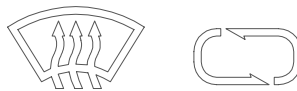
注：F: 灯丝 (Filament) P: 阳极 (Anode) G: 栅极 (Grid) NX: 无连接 (No Extended) NP: 无引出脚 (No pin)

附图 2: 显示内容 Display Pattern And 附图 3: 栅网分割 Grid Assignment

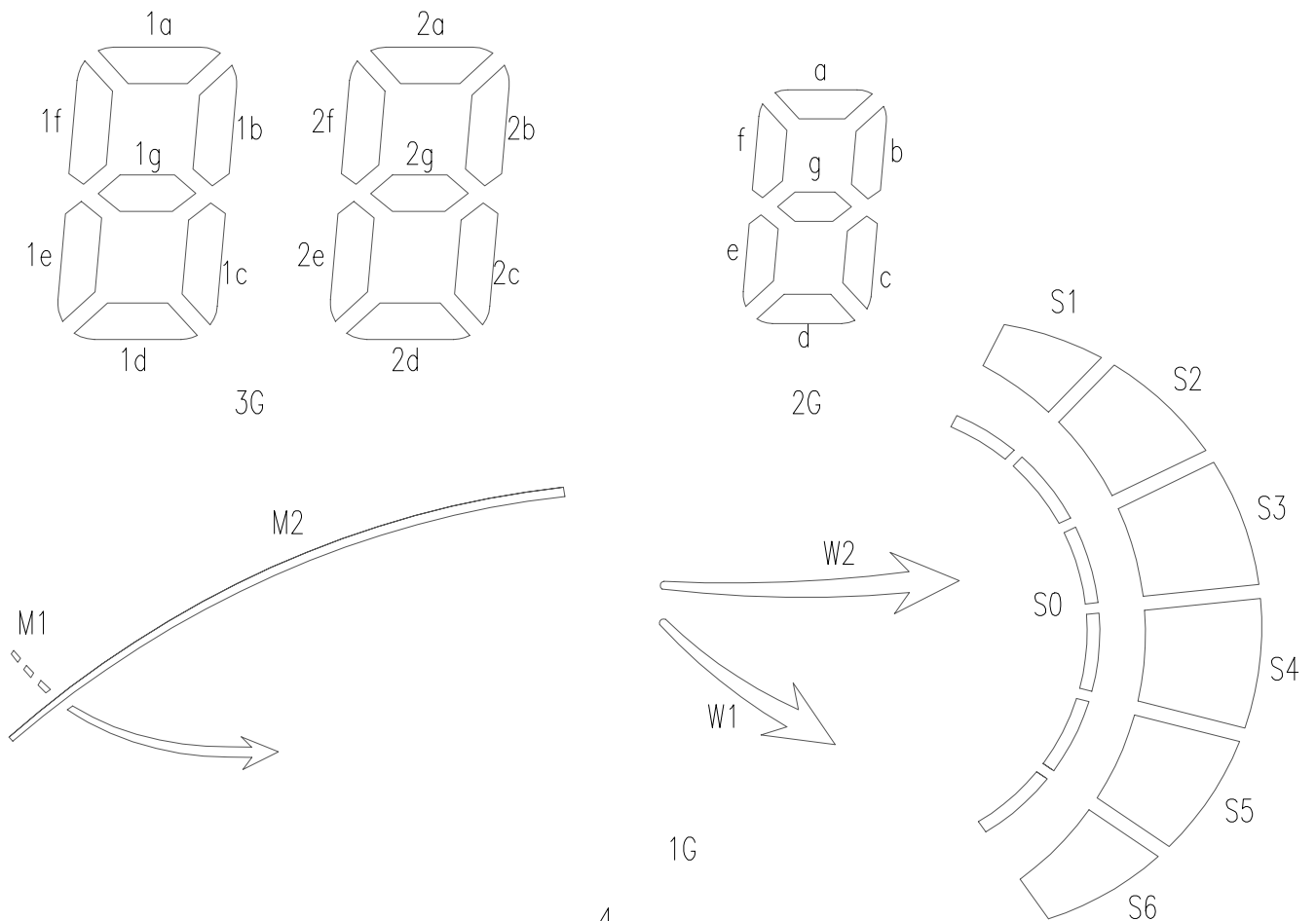


显示颜色(Color of illumination)

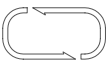
红色 Red:($x=0.627, y=0.371$): S0



绿色 (Green: $x=0.250, y=0.439$): 其余 (Others)



附图 4: 阳极连接 Anode Connection

	3G	2G	1G
P1	1d		S1
P2	1e		S2
P3	1c	—	S3
P4	1g	—	S4
P5	1f	—	S5
P6	1b	—	S6
P7	1a	—	S0
P8	2d	d	M1
P9	2e	e	M2
P10	2c	c	
P11	2g	g	
P12	2f	f	
P13	2b	b	W2
P14	2a	a	W1
P15		—	
P16	Dp		