










LED NUMERIC SINGLE DIGIT DISPLAYS

ACTUAL DIGIT HEIGHT	EMITTED COLOR					COMMON CATHODE or COMMON ANODE	PIN CONNECTION & PACKAGE
	GaAsp. RED	GREEN	ORANGE	Gap RED	HI-EFFI RED		
0.3 inch (7.62 mm) 	CM1-3011 CM1-3021	CM1-3012 CM1-3022	CM1-3013 CM1-3023	CM1-3014 CM1-3024	CM1-3015 CM1-3025	C. C. C. A.	FIG. 1
0.3 inch (7.62 mm) 	CM0-3011 CM0-3021	CM0-3012 CM0-3022	CM0-3013 CM0-3023	CM0-3014 CM0-3024	CM0-3015 CM0-3025	C. C. C. A.	FIG. 2
0.36 inch (9.14 mm) 	CM1-3611 CM1-3621	CM1-3612 CM1-3622	CM1-3613 CM1-3623	CM1-3614 CM1-3624	CM1-3615 CM1-3625	C. C. C. A.	FIG. 3
0.36 inch (9.14 mm) 	CM1-3611 CM0-3621	CM0-3612 CM0-3622	CM0-3613 CM0-3623	CM0-3614 CM0-3624	CM0-3615 CM0-3625	C. C. C. A.	FIG. 4
0.4 inch (10.16 mm) 	CM1-4011 CM1-4021	CM1-4012 CM1-4022	CM1-4013 CM1-4023	CM1-4014 CM1-4024	CM1-4015 CM1-4025	C. C. C. A.	FIG. 5
0.43 inch (10.92 mm) 	CM1-4311 CM1-4321	CM1-4312 CM1-4322	CM1-4313 CM1-4323	CM1-4314 CM1-4324	CM1-4315 CM1-4325	C. C. C. A.	FIG. 6
0.43 inch (10.92 mm) 	CM0-4311 CM0-4321	CM0-4312 CM0-4322	CM0-4313 CM0-4323	CM0-4314 CM0-4324	CM0-4315 CM0-4325	C. C. C. A.	FIG. 7
0.5 inch (12.70 mm) 	CM1-5011 CM1-5021	CM1-5012 CM1-5022	CM1-5013 CM1-5023	CM1-5014 CM1-5024	CM1-5015 CM1-5025	C. C. C. A.	FIG. 8
0.56 inch (14.22 mm) 	CM1-5611 CM1-5621	CM1-5612 CM1-5622	CM1-5613 CM1-5623	CM1-5614 CM1-5624	CM1-5615 CM1-5625	C. C. C. A.	FIG. 9
0.56 inch (14.22 mm) 	CM0-5611 CM0-5621	CM0-5612 CM0-5622	CM0-5613 CM0-5623	CM0-5614 CM0-5624	CM0-5615 CM0-5625	C. C. C. A.	FIG. 10
0.6 inch (15.24 mm) 	CM1-6011 CM1-6021	CM1-6012 CM1-6022	CM1-6013 CM1-6023	CM1-6014 CM1-6024	CM1-6015 CM1-6025	C. C. C. A.	FIG. 11



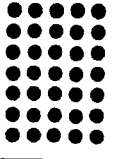
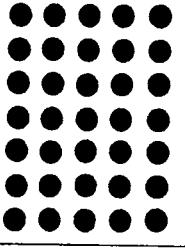
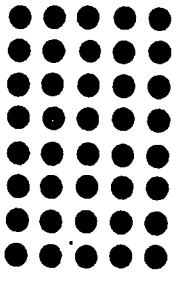
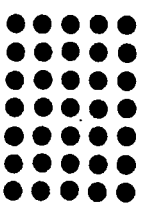
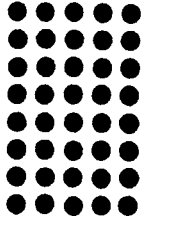
SINGLE DIGIT & DUAL DIGIT DISPLAYS

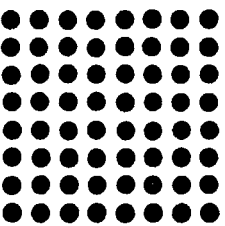
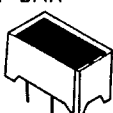

T-41-35

ACTUAL DIGIT HEIGHT	EMITTED COLOR					COMMON CATHODE or COMMON ANODE	PIN CONNECTION & PACKAGE
	GaAsp RED	GREEN	ORANGE	Gap RED	HI-EFFI RED		
0.8 inch (20.32 mm) 	CM1-8011 CM1-8021	CM1-8012 CM1-8022	CM1-8013 CM1-8023	CM1-8014 CM1-8024	CM1-8015 CM1-8025	T-41-31 C. C. C. A.	FIG. 12
1.0 inch (25.40 mm) 	CM1-10011 CM1-10021	CM1-10012 CM1-10022	CM1-10013 CM1-10023	CM1-10014 CM1-10024	CM1-10015 CM1-10025	C. C. C. A.	FIG. 13
1.02 inch (26.00 mm) 	CM1-10211 CM1-10221	CM1-10212 CM1-10222	CM1-10213 CM1-10223	CM1-10214 CM1-10224	CM1-10215 CM1-10225	C. C. C. A.	FIG. 14
2.30 inch (58.42 mm) 	CM1-23011 CM1-23021	CM1-23012 CM1-23022	CM1-23013 CM1-23023	CM1-23014 CM1-23024	CM1-23015 CM1-23025	C. C. C. A.	FIG. 15
0.3 inch (7.62 mm) 	CM2-3011 CM2-3021	CM2-3012 CM2-3022	CM2-3013 CM2-3023	CM2-3014 CM2-3024	CM2-3015 CM2-3025	C. C. C. A.	FIG. 16
0.4 inch (10.16 mm) 	CM2-4011 CM2-4021	CM2-4012 CM2-4022	CM2-4013 CM2-4023	CM2-4014 CM2-4024	CM2-4015 CM2-4025	C. C. C. A.	FIG. 17
0.5 inch (12.70 mm) 	CM2-5011 CM2-5021	CM2-5012 CM2-5022	CM2-5013 CM2-5023	CM2-5014 CM2-5024	CM2-5015 CM2-5025	C. C. C. A.	FIG. 18
0.54 inch (13.80 mm) 	CM2-5411 CM2-5421	CM2-5412 CM2-5422	CM2-5413 CM2-5423	CM2-5414 CM2-5424	CM2-5415 CM2-5425	C. C. C. A.	FIG. 19
0.56 inch (14.22 mm) 	CM2-5611 CM2-5621	CM2-5612 CM2-5622	CM2-5613 CM2-5623	CM2-5614 CM2-5624	CM2-5615 CM2-5625	C. C. C. A.	FIG. 20

THREE FOUR DIGIT & DOT MATRIX DISPLAYS

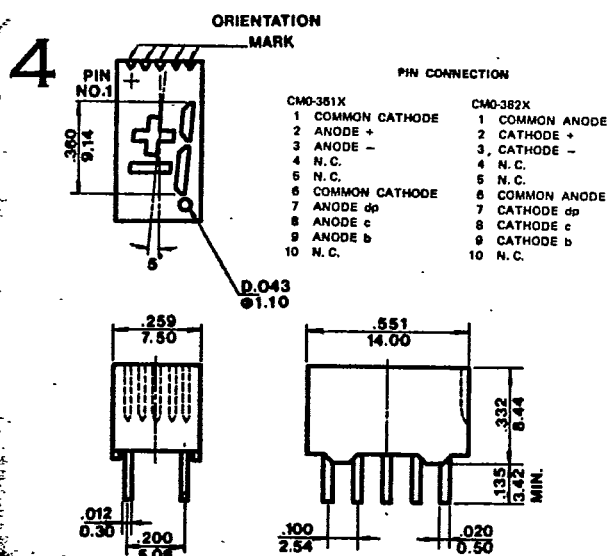
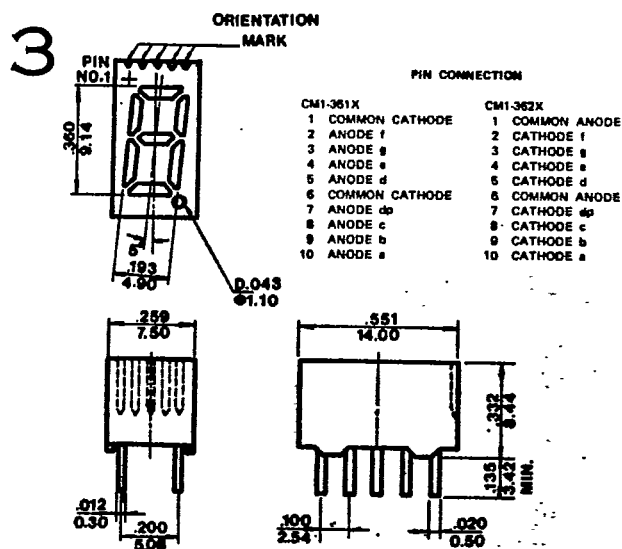
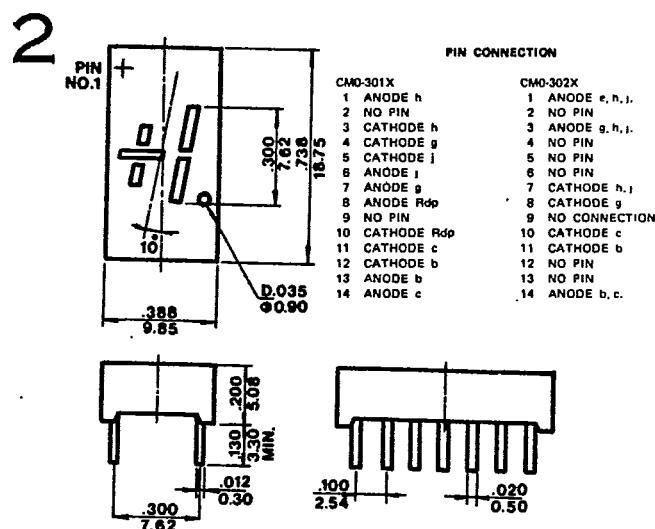
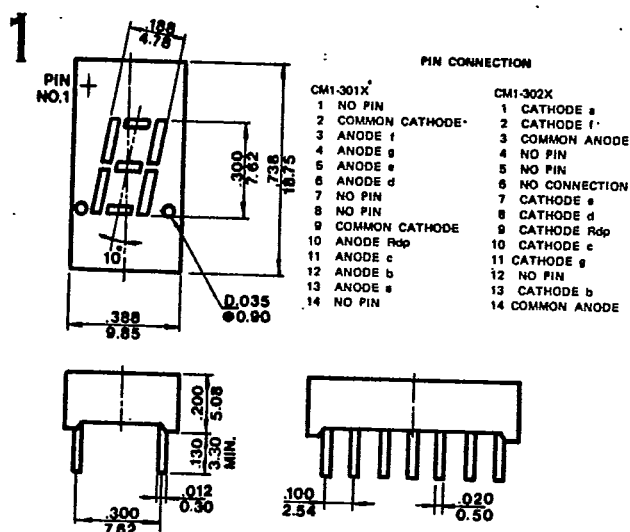
T-41-35

ACTUAL DIGIT HEIGHT	EMITTED COLOR T-41-31					COMMON CATHODE or COMMON ANODE	PIN CONNECTION & PACKAGE
	GaAsp RED	GREEN	ORANGE	Gap RED	HI-EFFI RED		
0.56 inch (14.22 mm) 	CM3-5611 CM3-5651 CM3-5621 CM3-5661	CM3-5612 CM3-5652 CM3-5622 CM3-5662	CM3-5613 CM3-5653 CM3-5623 CM3-5663	CM3-5614 CM3-5654 CM3-5624 CM3-5664	CM3-5615 CM3-5655 CM3-5625 CM3-5665	C. C. C. C. C. A. C. A.	FIG. 21
0.56 inch (14.22 mm)  (SCALE ½)	CM4-5611 CM4-5651 CM4-5621 CM4-5661	CM4-5612 CM4-5652 CM4-5622 CM4-5662	CM4-5613 CM4-5653 CM4-5623 CM4-5663	CM4-5614 CM4-5654 CM4-5624 CM4-5664	CM4-5615 CM4-5655 CM4-5625 CM4-5665	C. C. C. C. C. A. C. A.	FIG. 22
0.7 inch (17.78 mm) 	CMD-25711 CMD-25721	CMD-25712 CMD-25722	CMD-25713 CMD-25723	CMD-25714 CMD-25724	CMD-25715 CMD-25725	C. C. C. A.	FIG. 23
1.2 inch (30.48 mm) 	CMD-35711 CMD-35721	CMD-35712 CMD-35722	CMD-35713 CMD-35723	CMD-35714 CMD-35724	CMD-35715 CMD-35725	C. C. C. A.	FIG. 24
1.4 inch (35.56 mm) 	CMD-35811 CMD-35821	CMD-35812 CMD-35822	CMD-35813 CMD-35823	CMD-35814 CMD-35824	CMD-35815 CMD-35825	C. C. C. A.	FIG. 25
2.0 inch (50.8 mm)  (SCALE ½)	CMD-55711 CMD-55721	CMD-55712 CMD-55722	CMD-55713 CMD-55723	CMD-55714 CMD-55724	CMD-55715 CMD-55725	C. C. C. A.	FIG. 26
2.3 inch (58.42 mm)  (SCALE ½)	CMD-55811 CMD-55821	CMD-55812 CMD-55822	CMD-55813 CMD-55823	CMD-55814 CMD-55824	CMD-55815 CMD-55825	C. C. C. A.	FIG. 27

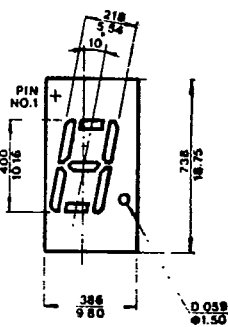
ACTUAL DIGIT HEIGHT	EMITTED COLOR					COMMON CATHODE or COMMON ANODE	PIN CONNECTION & PACKAGE
	GaAsp RED	GREEN	ORANGE	Gap RED	HI-EFFI RED		
2.3 inch (58.42 mm)	T-41-35						
 (SCALE 1/2)	CMD-58811 CMD-58821	CMD-58812 CMD-58822	CMD-58813 CMD-58823	CMD-58814 CMD-58824	CMD-58815 CMD-58825	C. C. C. A.	FIG. 28
LIGHT BAR 	CML-1001	CML-1002	CML-1003	CML-1004	CML-1005		FIG. 29
10 BAR GRAPH ARRAY  (SCALE 1/2)	CML-10001	CML-10002	CML-10003	CML-10004	CML-10005		FIG. 30

PACKAGE DIMENSIONS

Note: All Dimension Are In $\frac{\text{Inches,}}{\text{Millimeters}}$ Tolerance Is $\frac{0.010''}{(0.25 \text{ mm})}$ Unless Otherwise Notel.

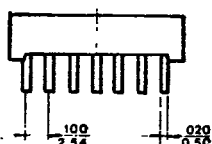
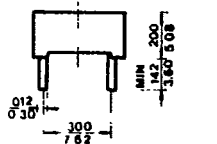


5

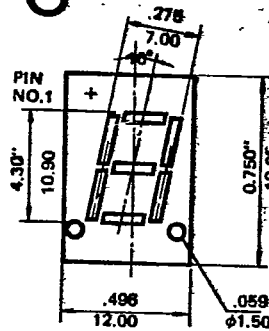


PIN CONNECTION

CM1-401X	CM1-402X
1 ANODE f	1 CATHODE a
2 ANODE g	2 CATHODE f
3 NO PIN	3 COMMON ANODE
4 COMMON CATHODE	4 NO PIN
5 NO PIN	5 NO PIN
6 ANODE e	6 NO CONNECTION
7 ANODE d	7 CATHODE e
8 ANODE c	8 CATHODE d
9 ANODE dp	9 CATHODE dp
10 NO PIN	10 CATHODE c
11 NO CONNECTION	11 CATHODE b
12 COMMON CATHODE	12 NO PIN
13 ANODE b	13 CATHODE b
14 ANODE a	14 COMMON ANODE



6

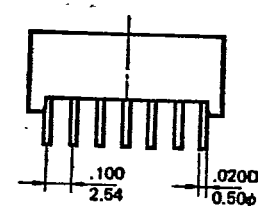
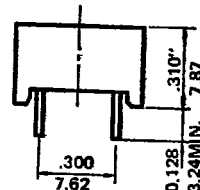


T-41-35

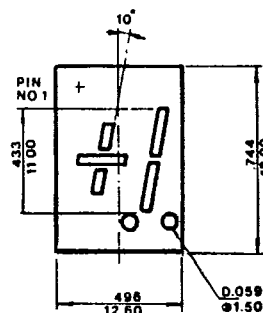
T-41-31

PIN CONNECTION

CM1-431X	CM1-432X
1 ANODE e	1 CATHODE a
2 ANODE f	2 CATHODE f
3 COMMON CATHODE	3 COMMON ANODE
4 NO PIN	4 NO PIN
5 NO PIN	5 NO PIN
6 ANODE Ldp	6 CATHODE Ldp
7 ANODE e	7 CATHODE e
8 ANODE d	8 CATHODE d
9 ANODE Rdp	9 CATHODE Rdp
10 ANODE c	10 CATHODE c
11 ANODE b	11 CATHODE b
12 NO PIN	12 NO PIN
13 ANODE b	13 CATHODE b
14 COMMON CATHODE	14 COMMON ANODE

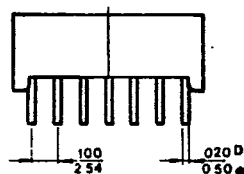
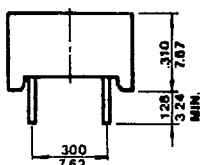


7

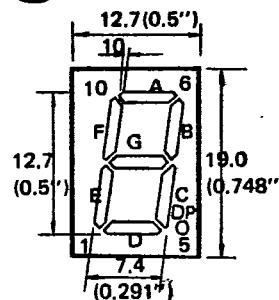


PIN CONNECTION

CMO-431X/CMO-432X
1 CATHODE h
2 ANODE h
3 NO PIN
4 CATHODE g
5 CATHODE j
6 ANODE i
7 ANODE g
8 ANODE dp
9 CATHODE dp
10 CATHODE c
11 CATHODE b
12 NO PIN
13 ANODE b
14 ANODE c

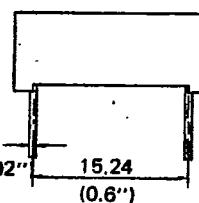
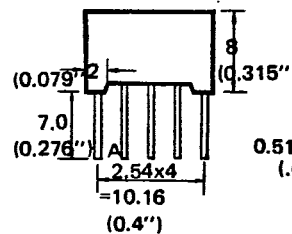


8

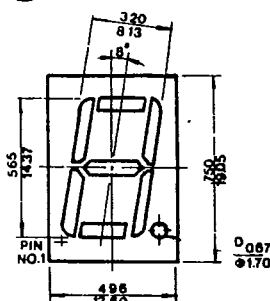


PIN CONNECTION

CM1-501X	CM1-502X
1 ANODE e	1 CATHODE a
2 ANODE d	2 CATHODE d
3 COMMON CATHODE	3 COMMON ANODE
4 ANODE c	4 CATHODE c
5 ANODE dp	5 CATHODE dp
6 ANODE b	6 CATHODE b
7 ANODE a	7 CATHODE a
8 COMMON CATHODE	8 COMMON ANODE
9 ANODE f	9 CATHODE f
10 ANODE g	10 CATHODE g

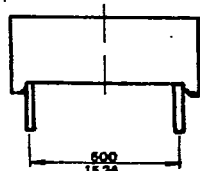
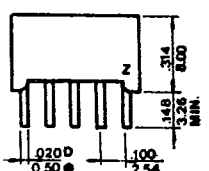


9

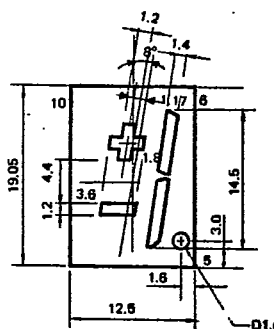


PIN CONNECTION

CM1-501X	CM1-502X
1 ANODE e	1 CATHODE a
2 ANODE d	2 CATHODE d
3 COMMON CATHODE	3 COMMON ANODE
4 ANODE c	4 CATHODE c
5 ANODE dp	5 CATHODE dp
6 ANODE b	6 CATHODE b
7 ANODE a	7 CATHODE a
8 COMMON CATHODE	8 COMMON ANODE
9 ANODE f	9 CATHODE f
10 ANODE g	10 CATHODE g

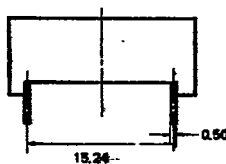
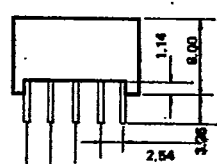


10

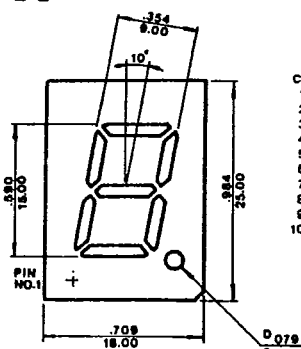


PIN CONNECTION

CMO-501X	CMO-502X
1 ANODE c	1 CATHODE c
2 ANODE c.d.	2 ANODE c.d.
3 CATHODE b	3 CATHODE b
4 CATHODE a.b.dp.	4 ANODE a.b.dp.
5 ANODE dp.	5 CATHODE dp
6 ANODE a.	6 CATHODE a
7 CATHODE a.b.dp.	7 ANODE a.b.dp.
8 CATHODE c.d.	8 ANODE c.d.
9 ANODE d.	9 CATHODE d
10 NO CONNECTION	10 NO CONNECTION

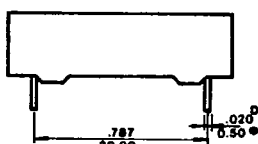
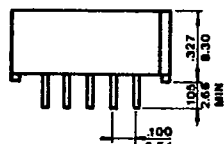


11

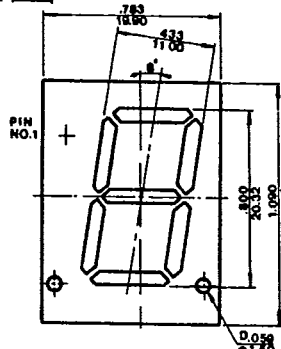


PIN CONNECTION

CM1-801X	CM1-802X
1 ANODE e	1 CATHODE e
2 ANODE d	2 CATHODE d
3 ANODE c	3 CATHODE c
4 ANODE dp	4 CATHODE dp
5 COMMON CATHODE	5 COMMON ANODE
6 ANODE b	6 CATHODE b
7 ANODE a	7 CATHODE a
8 ANODE g	8 CATHODE g
9 ANODE f	9 CATHODE f
10 COMMON CATHODE	10 COMMON ANODE

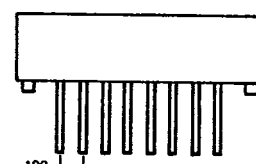
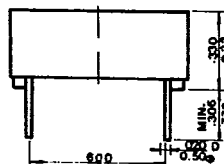


12

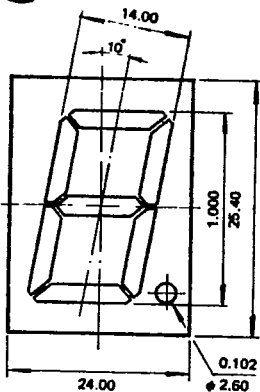


PIN CONNECTION

CM1-801X	CM1-802X
1 NO PIN	1 NO PIN
2 ANODE a	2 CATHODE a
3 ANODE f	3 CATHODE f
4 COMMON CATHODE	4 COMMON ANODE
5 ANODE e	5 CATHODE e
6 COMMON CATHODE	6 COMMON ANODE
7 ANODE Ldp	7 CATHODE Ldp
8 NO PIN	8 NO PIN
9 NO PIN	9 NO PIN
10 ANODE Rdp	10 CATHODE Rdp
11 ANODE d	11 CATHODE d
12 COMMON CATHODE	12 COMMON ANODE
13 ANODE c	13 CATHODE c
14 ANODE g	14 CATHODE g
15 ANODE b	15 CATHODE b
16 NO PIN	16 NO PIN
17 COMMON CATHODE	17 COMMON ANODE
18 NO PIN	18 NO PIN

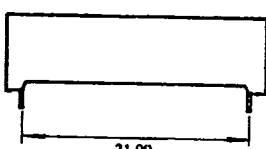
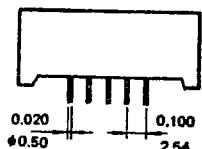


13

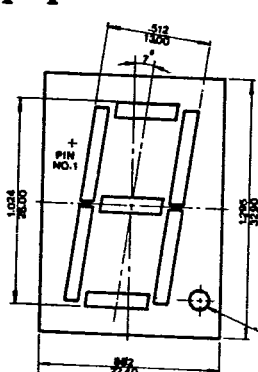


PIN CONNECTION

CM1-1001X	CM1-1002X
1 ANODE e	1 CATHODE e
2 ANODE d	2 CATHODE d
3 COMMON CATHODE	3 COMMON ANODE
4 ANODE c	4 CATHODE c
5 ANODE dp	5 CATHODE dp
6 ANODE b	6 CATHODE b
7 ANODE a	7 CATHODE a
8 COMMON CATHODE	8 COMMON ANODE
9 ANODE f	9 CATHODE f
10 ANODE g	10 CATHODE g

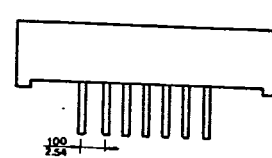
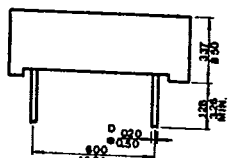


14

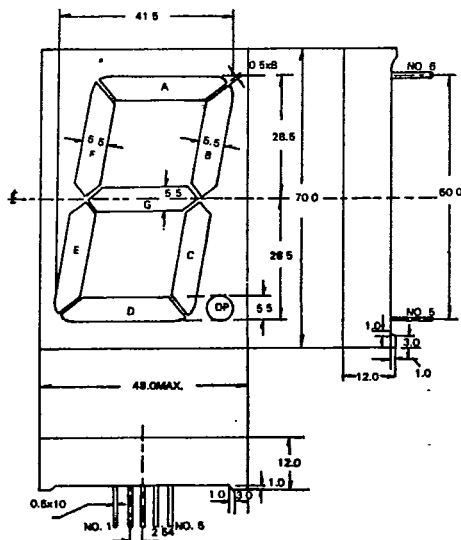


PIN CONNECTION

CM1-1021X	CM1-1022X
1 ANODE a	1 CATHODE a
2 ANODE f	2 CATHODE f
3 COMMON CATHODE	3 COMMON ANODE
4 NO PIN	4 NO PIN
5 NO PIN	5 NO PIN
6 COMMON CATHODE	6 COMMON ANODE
7 ANODE e	7 CATHODE e
8 ANODE d	8 CATHODE d
9 ANODE dp	9 CATHODE dp
10 ANODE c	10 CATHODE c
11 ANODE g	11 CATHODE g
12 NO PIN	12 NO PIN
13 ANODE b	13 CATHODE b
14 COMMON CATHODE	14 COMMON ANODE



15

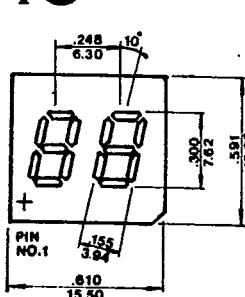
CM1-2301X
COMMON CATHODE
PIN NO FUNCTION

1 COMMON CATHODE
2 ANODE e
3 ANODE d
4 ANODE c
5 COMMON CATHODE
6 ANODE b
7 ANODE a
8 ANODE dp
9 ANODE f
10 ANODE g

CM1-2302X
COMMON ANODE
PIN NO FUNCTION

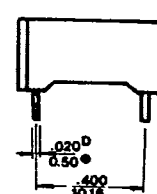
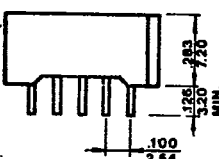
1 COMMON ANODE
2 CATHODE e
3 CATHODE d
4 CATHODE c
5 COMMON ANODE
6 CATHODE b
7 CATHODE a
8 CATHODE dp
9 CATHODE f
10 CATHODE g

16



PIN CONNECTION

CM2-301X	CM2-302X
1 ANODE g	1 CATHODE g
2 NO PIN	2 NO PIN
3 ANODE a	3 CATHODE a
4 ANODE f	4 CATHODE f
5 D ₂ COMMON CATHODE	10 D ₂ COMMON ANODE
6 ANODE d	6 CATHODE d
7 ANODE e	7 CATHODE e
8 ANODE c	8 CATHODE c
9 ANODE b	9 CATHODE b
10 D ₁ COMMON CATHODE	10 D ₁ COMMON CATHODE



23

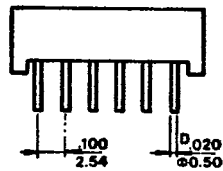
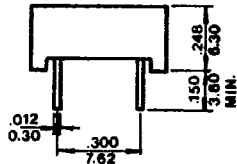
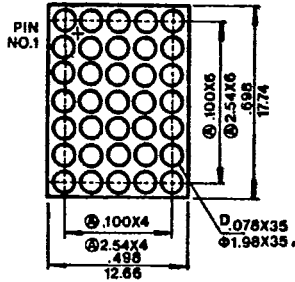
PIN CONNECTIONS

CMD-2571X

- 1 ANODE COLUMN 1
- 2 CATHODE ROW 3
- 3 ANODE COLUMN 2
- 4 CATHODE ROW 5
- 5 CATHODE ROW 6
- 6 CATHODE ROW 7
- 7 ANODE COLUMN 4
- 8 ANODE COLUMN 5
- 9 CATHODE ROW 4
- 10 ANODE COLUMN 3
- 11 CATHODE ROW 2
- 12 CATHODE ROW 1

CMD-2572X

- 1 CATHODE COLUMN 1
- 2 ANODE ROW 3
- 3 CATHODE COLUMN 2
- 4 ANODE ROW 5
- 5 ANODE ROW 6
- 6 ANODE ROW 7
- 7 CATHODE COLUMN 4
- 8 CATHODE COLUMN 5
- 9 ANODE ROW 4
- 10 CATHODE COLUMN 3
- 11 ANODE ROW 2
- 12 ANODE ROW 1



24

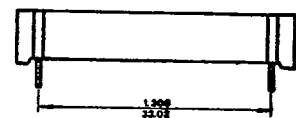
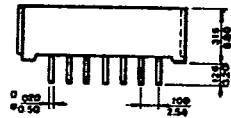
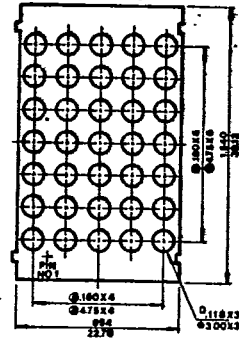
PIN CONNECTION

CMD-3571X

- 1 ANODE ROW 5
- 2 ANODE ROW 7
- 3 CATHODE COLUMN 2
- 4 CATHODE COLUMN 3
- 5 ANODE ROW 4
- 6 CATHODE COLUMN 8
- 7 ANODE ROW 6
- 8 ANODE ROW 3
- 9 ANODE ROW 1
- 10 CATHODE COLUMN 4
- 11 CATHODE COLUMN 3
- 12 ANODE ROW 4
- 13 CATHODE COLUMN 1
- 14 ANODE ROW 2

CMD-3572X

- 1 CATHODE ROW 5
- 2 CATHODE ROW 7
- 3 ANODE COLUMN 2
- 4 ANODE COLUMN 3
- 5 CATHODE ROW 4
- 6 ANODE COLUMN 8
- 7 CATHODE ROW 6
- 8 CATHODE ROW 3
- 9 CATHODE ROW 1
- 10 ANODE COLUMN 4
- 11 ANODE COLUMN 3
- 12 CATHODE ROW 4
- 13 ANODE COLUMN 1
- 14 CATHODE ROW 2



25

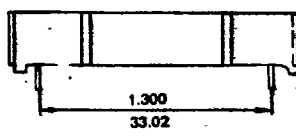
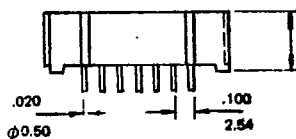
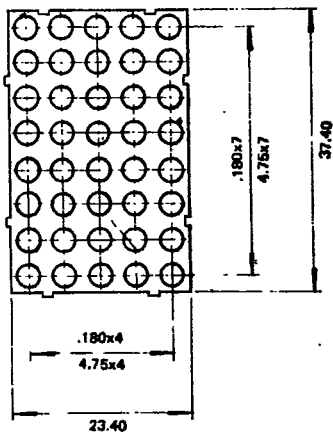
PIN CONNECTION

CMD-3581X

- 1 ANODE ROW 6
- 2 ANODE ROW 8
- 3 CATHODE COLUMN 2
- 4 CATHODE COLUMN 3
- 5 ANODE ROW 5
- 6 CATHODE COLUMN 5
- 7 ANODE ROW 7
- 8 ANODE ROW 3
- 9 ANODE ROW 1
- 10 CATHODE COLUMN 4
- 11 CATHODE COLUMN 3
- 12 ANODE ROW 4
- 13 CATHODE COLUMN 1
- 14 ANODE ROW 2

CMD-3582X

- 1 CATHODE ROW 6
- 2 CATHODE ROW 8
- 3 ANODE COLUMN 2
- 4 ANODE COLUMN 3
- 5 CATHODE ROW 5
- 6 ANODE COLUMN 5
- 7 CATHODE ROW 7
- 8 CATHODE ROW 3
- 9 CATHODE ROW 1
- 10 ANODE COLUMN 4
- 11 ANODE COLUMN 3
- 12 CATHODE ROW 4
- 13 ANODE COLUMN 1
- 14 CATHODE ROW 2



26

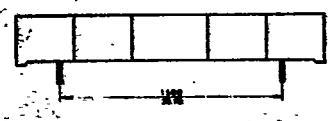
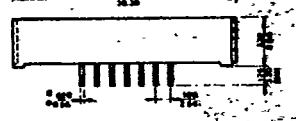
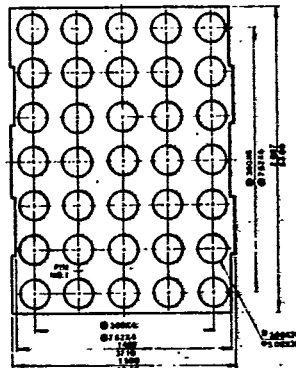
PIN CONNECTION

CMD-5571X

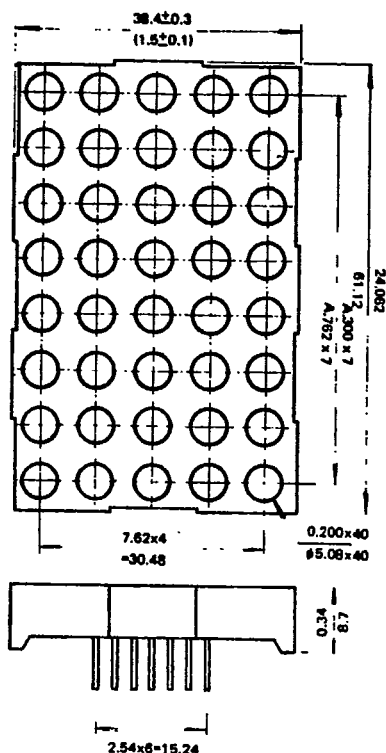
- 1 ANODE ROW 5
- 2 ANODE ROW 7
- 3 CATHODE COLUMN 2
- 4 CATHODE COLUMN 3
- 5 ANODE ROW 4
- 6 CATHODE COLUMN 8
- 7 ANODE ROW 6
- 8 ANODE ROW 3
- 9 ANODE ROW 1
- 10 CATHODE COLUMN 4
- 11 CATHODE COLUMN 3
- 12 ANODE ROW 4
- 13 CATHODE COLUMN 1
- 14 ANODE ROW 2

CMD-5572X

- 1 CATHODE ROW 5
- 2 CATHODE ROW 7
- 3 ANODE COLUMN 2
- 4 ANODE COLUMN 3
- 5 CATHODE ROW 4
- 6 ANODE COLUMN 8
- 7 CATHODE ROW 6
- 8 CATHODE ROW 3
- 9 CATHODE ROW 1
- 10 ANODE COLUMN 4
- 11 ANODE COLUMN 3
- 12 CATHODE ROW 4
- 13 ANODE COLUMN 1
- 14 CATHODE ROW 2



27



PIN CONNECTION

CMD-5581X		
1	ANODE ROW	6
2	ANODE ROW	8
3	CATHODE COLUMN 2	
4	CATHODE COLUMN 3	
5	ANODE ROW	5
6	CATHODE COLUMN 5	
7	ANODE ROW	7
8	ANODE ROW	3
9	ANODE ROW	1
10	CATHODE COLUMN 4	
11	CATHODE COLUMN 3	
12	ANODE ROW	4
13	CATHODE COLUMN 1	
14	ANODE ROW	2

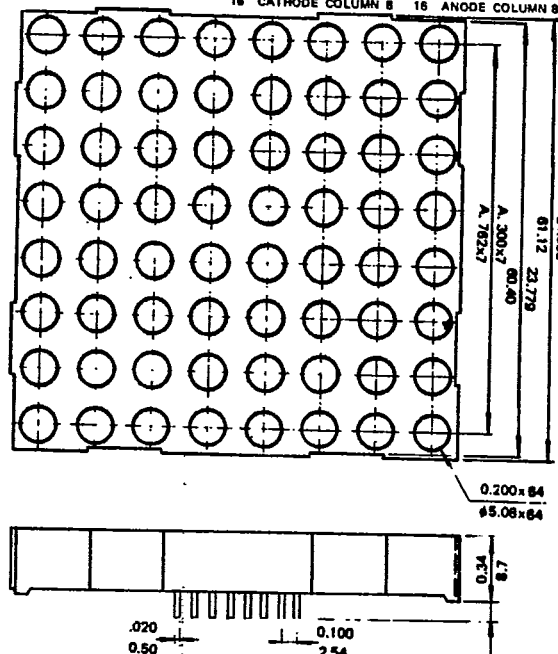
CMD-5582X		
1	CATHODE ROW	6
2	CATHODE ROW	8
3	ANODE COLUMN 2	
4	ANODE COLUMN 3	
5	CATHODE ROW	5
6	ANODE COLUMN 5	
7	CATHODE ROW	7
8	CATHODE ROW	3
9	CATHODE ROW	1
10	ANODE COLUMN 4	
11	ANODE COLUMN 3	
12	CATHODE ROW	4
13	ANODE COLUMN 1	
14	CATHODE ROW	2

28

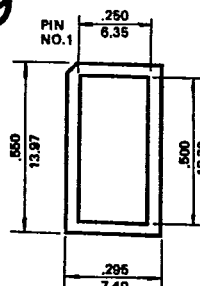
PIN CONNECTION

CMD-5581X		
1	ANODE ROW	6
2	ANODE ROW	8
3	CATHODE COLUMN 2	
4	CATHODE COLUMN 3	
5	ANODE ROW	5
6	CATHODE COLUMN 5	
7	ANODE ROW	7
8	ANODE ROW	3
9	ANODE ROW	1
10	CATHODE COLUMN 4	
11	CATHODE COLUMN 3	
12	ANODE ROW	4
13	CATHODE COLUMN 1	
14	ANODE ROW	2
15	CATHODE COLUMN 7	
16	CATHODE COLUMN 8	

CMD-5582X		
1	CATHODE ROW	6
2	CATHODE ROW	8
3	ANODE COLUMN 2	
4	ANODE COLUMN 3	
5	CATHODE ROW	5
6	ANODE COLUMN 5	
7	CATHODE ROW	7
8	CATHODE ROW	3
9	CATHODE ROW	1
10	ANODE COLUMN 4	
11	ANODE COLUMN 3	
12	CATHODE ROW	4
13	ANODE COLUMN 1	
14	CATHODE ROW	2
15	ANODE COLUMN 7	
16	ANODE COLUMN 8	

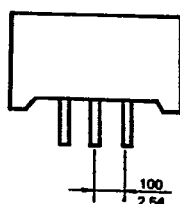
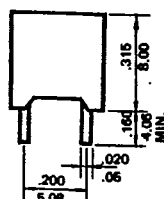


29

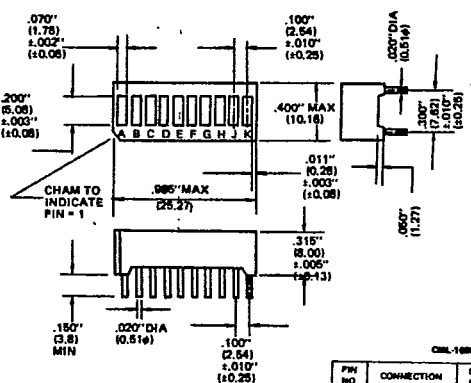


CML-100X

1. CATHODE A
2. NO PIN
3. ANODE B
4. CATHODE B
5. NO CONNECTION
6. ANODE A



30



CML-100X

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Anode A	11	Cathode K
2	Anode B	12	Cathode J
3	Anode C	13	Cathode H
4	Anode D	14	Cathode G
5	Anode E	15	Cathode F
6	Anode F	16	Cathode E
7	Anode G	17	Cathode D
8	Anode H	18	Cathode C
9	Anode I	19	Cathode B
10	Anode J	20	Cathode A

ABSOLUTE MAXIMUM RATINGS (Ta = 25

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	RED (GaAsP)	GREEN	ORANGE	Gap RED	HI-EFFI RED	UNITS
Reverse Voltage Per Segment or D.P.	5	5	5	5	5	V
Average Forward Current (I _F)	30	30	30	30	30	mA
Peak Forward Current Per Segment or D.P.	200	200	200	200	200	mA
Power Dissipation	100	85	85	85	85	mW
Operating Temperature Range	- 40°C TO 85°C					
Storage Temperature Range	- 40°C TO 100°C					
Lead Solder Temperature (1.6 mm From Body) 260°C for 3sec.						

ELECTRO - OPTICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

PARAMETER	SYMBOL	DEVICES	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Forward Voltage	V_F	GaAsP RED	1.5	1.7	2.0	V	$I_F = 10\text{mA}$
		GREEN	1.54	2.2	3.0		
		ORANGE	1.47	2.1	3.0		
		Gap RED	1.40	2.0	3.0		
		HI-EFF RED	1.47	2.1	3.0		
Wavelength	λ_p	GaAsP RED		655		nm	$I_F = 20\text{mA}$
		GREEN		567			
		ORANGE		635			
		Gap RED		700			
		HI-EFFI RED		635			
Spectral Line Halfwidth	$\Delta\lambda$	GaAsP RED		40		nm	$I_F = 20\text{mA}$
		GREEN		30			
		ORANGE		45			
		Gap RED		90			
		HI-EFFI RED		45			
Reverse Current	I_R	GaAsP RED			100	μA	*1 DICE $V_R = 5\text{V}$ 2 DICES $V_R = 10\text{V}$ 3 DICES $V_R = 20\text{V}$
		GREEN			100		
		ORANGE			100		
		Gap RED			100		
		HI-EFFI RED			100		

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES

(25°C Free Air Temperature Unless Otherwise Specified)

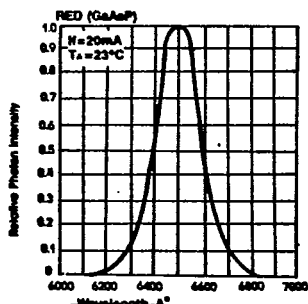


Fig. 2 RELATIVE SPECTRAL CHARACTERISTICS

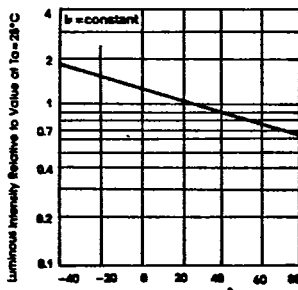


Fig. 5 RELATIVE LUMINOUS INTENSITY vs. FREE-AIR TEMPERATURE

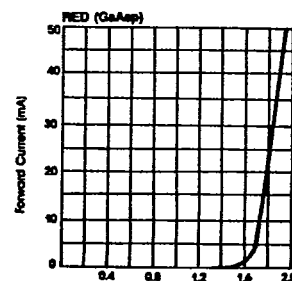
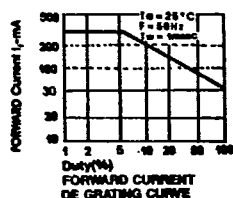
Fig. 1 FORWARD CURRENT (I_F) vs. FORWARD VOLTAGE (V_F)

Fig. 6 FORWARD CURRENT vs. DUTY

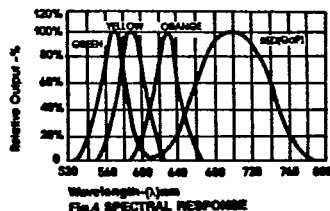


Fig. 4 SPECTRAL RESPONSE

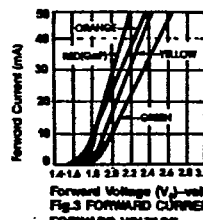


Fig. 3 FORWARD CURRENT vs. FORWARD VOLTAGE

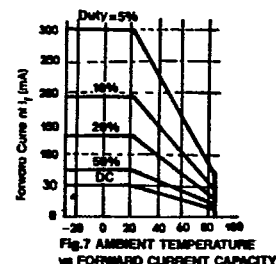


Fig. 7 AMBIENT TEMPERATURE vs. FORWARD CURRENT CAPACITY

翔光電子有限公司
SHARLIGHT ELECTRONICS CO., LTD.

台北縣新店市安和路3段112號
NO. 112, SEC. 3, AN HO RD., HSIN TIEN CITY
TAIPEI HSIEN, TAIWAN, R. O. C.
TEL: (02) 944-5973 944-5975 FAX: 886-2-9469772