

Philips Components

Data sheet	
status	Product specification
date of issue	July 1990

LTA141

Liquid Crystal Display

T-41-38

DEVICE DESCRIPTION

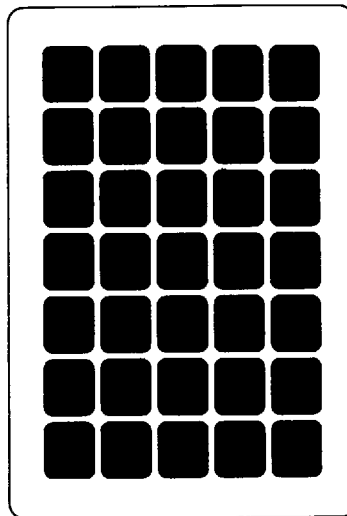
The LTA141 is a single character display of 5 x 7 dots.
 Typical applications include communications panels for air terminals, bus stations and railway stations.

QUICK REFERENCE DATA

Viewing area dimensions	45.8 x 67.4 mm
Overall glass dimensions	50.8 x 80.0 mm
Thickness	2.7 +/- 0.4 mm
Digit height	37.2 x 57.3 mm
Preferred viewing direction	12 o'clock
Driving method	direct drive

DISPLAY MODE

scale 1:1



7Z22323

Fig.1 Universal display.

Liquid crystal display

LTA141

MECHANICAL DATA

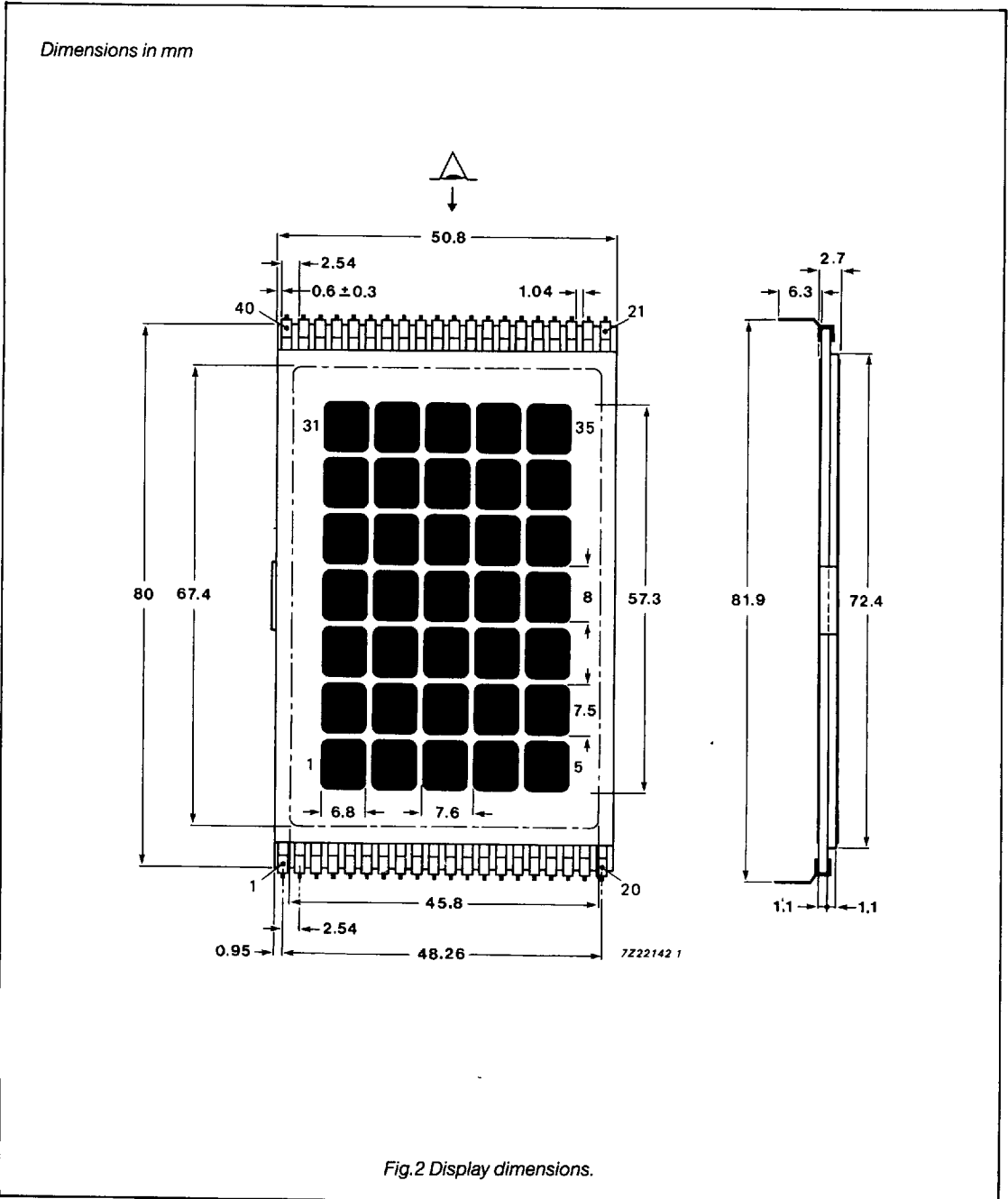


Fig.2 Display dimensions.

Liquid crystal display

LTA141

PIN DESCRIPTION

PIN NO.	SEGMENT	PIN NO.	SEGMENT
1	comm	21	16
2	n.c.	22	25
3	n.c.	23	26
4	n.c.	24	35
5	1	25	24
6	10	26	27
7	12	27	34
8	2	28	23
9	9	29	28
10	8	30	33
11	3	31	18
12	13	32	19
13	7	33	32
14	4	34	29
15	14	35	22
16	17	36	31
17	5	37	30
18	6	38	21
19	15	39	20
20	n.c.	40	11

TYPE DEPENDENT CHARACTERISTICS (1)

TYPE	ILLUMINATION MODE	CONNECTION METHOD	QUALITY GRADE	FAMILY CHARACTERISTICS (2)	OPERATING VOLTAGE (V)
LTA141R-12	reflective	with fixed pins	commercial	TR0	3.5 - 6.5
LTA141F-12	transflective	with fixed pins	commercial	TF0	3.5 - 6.5
LTA141R-22	reflective	with fixed pins	extended	TR2	3.5 - 6.5
LTA141F-22	transflective	with fixed pins	extended	TF2	3.5 - 6.5

Note: (1) drive method = direct drive for all types

(2) see chapter "Family Characteristics" for complete specification

RATINGS

Limiting values in accordance with Absolute Maximum System (IEC 134)

Maximum voltage between any two contacts (see note)

V_{max}

15 V RMS

Note: maximum DC component = 0.1 V

TYPE	RELIABILITY TESTS		
	Damp heat steady state $T_{amb}/R.H./duration$	Low temperature storage $T_{amb}/duration$	High temperature storage $T_{amb}/duration$ (dry)
LTA141R-12	+40 °C/90%/21 days	-25 °C/21 days	+70 °C/21 days
LTA141F-12	+40 °C/90%/21 days	-25 °C/21 days	+70 °C/21 days
LTA141R-22	+80 °C/90%/21 days	-40 °C/21 days	+85 °C/21 days
LTA141F-22	+80 °C/90%/21 days	-40 °C/21 days	+85 °C/21 days