

APPLICATION NOTE**DATE: 16/12/96****Understanding Hitachi LCD Part Numbering Conventions**

Part Numbering Convention (implemented for new displays introduced from October 1996) for Monochrome STN and Colour-STN Liquid Crystal Displays.

e.g. **S P 14 Q 001 - xxx**
 1 2 3 4 5 6

1 - Display Type

S = Super Twisted Nematic Graphic Liquid Crystal Display

2 - Module Type

Type	Mode	Backlight
X	Colour	Yes
A	Colour	No
P	Monochrome	Yes
R	Monochrome	No

3 - Screen Diagonal Size (cm)

e.g. 287mm → 29, 68.7mm → 07, 14.2cm → 14

4 - Display Resolution

Type	Display Type	Resolution
Y	Super XGA	1024 x 768 <Y
X	XGA	800 x 600 < X < 1024 x 768
S	Super VGA	640 x 480 < S < 800 x 600
V	VGA	480 x 320 < V < 640 x 480
H	Half VGA	320 x 240 < H < 480 x 320
Q	Quarter VGA	240 x 128 < Q < 320 x 240
N	-	128 x 64 < N < 240 x 128
M	-	M < 128 x 64

5 - Serial Number (3 digit)**6 - Options (3 digit)**

Original Part Numbering Convention (used until October 1996 for new display introductions) for Monochrome STN and Colour-STN Liquid Crystal Displays.

e.g. **LMG 7380 QH F C xxx**
 1 2 3 4 5 6

1 - Display Type

LMG = Liquid Crystal Graphics Module

2 - Serial number (4 digit)

3 - Resolution (2 digit)

1st digit defines horizontal resolution, 2nd digit defines vertical resolution

Type	Number of Dots
A	8
B	16
C	20
D	24
E	32
F	40
G	48
H	64
J	80
K	100
L	128
M	160
N	200
P	240
Q	256
R	320
S	360
T	400
U	480
V	540
W	600
X	640
Y	740
Z	1152

4 - Colour Mode and Type

Type	S	H	Y	B	G	W	F	C
Mode	Grey		Yellow	Blue	New Grey	Black/White		Colour
Feature	Normal Temp	Wide Temp				Double Layer	Film	

5 - Viewing Mode

Type	R	F	L	E	C
Mode	Reflective	Transflective	LED	EL	CFL
Backlight					

6 - Options (3 digit)

Part Numbering Convention used for Hitachi TFT (Thin Film Transistor) Liquid Crystal Displays

e.g. **T X 31 D 21 V C 1 C A A**
 1 2 3 4 5 6 7 8 9 10 11

1 - Display Type

T = Hitachi TFT (Thin Film Transistor) Liquid Crystal Graphic Display

2 - Module Type

Type	Description
X	Module + Backlight (Direct View)
B	Backlight Only
M	Module Only (OHP type)

3 - Screen Diagonal Size (cm)

e.g. 31 → 31cm (12.1"), 34 → 34cm (13.3")

4 - Interface Data Input Signal

Type	Description
D	Digital
A	Analogue

5 - Development Serial Number (2 digits)

6 - Colour Filter Arrangement

Type	Description
V	Vertical
H	Horizontal
T	Triangular
M	Monochrome

7 - Operating Temperature Range

Type	Description
C	Standard

8 - Direction of Viewing Angle

Type	Description
1	6 o'clock
2	12 o'clock

9 - Polarising Film Specification

Type	Description
A	Glare
B	Anti-glare No.1
C	Anti-glare No.2

10 - Connector Specification

11 - Backlight Specification