

Optrex America, Inc.



OAI-80018AA-7602-B
5/22/2007

Optrex Part Numbering System Description



TYPES OF DISPLAYS

- PASSIVE CHARACTER & GRAPHICS MODULE
- ACTIVE TFT MODULE



CHARACTER & GRAPHIC MODULES

PRODUCT FAMILY NUMBER LCD PANEL FEATURES BACKLIGHT FEATURES REVISION LEVEL

C-5 I 505 TN QJU-SLW - AAN

TYPE

C – Character
DMC – Character
DMF – Graphic
F -- Graphic

MODEL NUMBER

3 to 5 Digits
162xx – 16x2
202xx – 20x2
204xx – 20x4

CONNECTION TYPE

None – Zebra
F – Chip On Flex (COF)
G – Chip On Glass (COG)
T – Tape Carrier Package (TCP)

LIQUID CRYSTAL TYPE

None – Twisted Nematic (TN)
N – Super Twisted Nematic (STN)

COLOR MODE

None – Neutral (Dark Blue & Light Grey)
B – Blue Mode (Blue & White)
C – Full RGB Color
F – FSTN (Black & White)
Q – High Performance Partial Color
(Internal Black Mask & Colored LED)
Y – Yellow Mode (Dark Blue & Yellow)

TEMPERATURE RANGE

Rated Operating Temperatures
None – Consumer 0° C to 50° C
J – Extended Range -20° C to 70° C (or as noted in spec)
H – Wide Range -30° C to 85° C (or as noted in spec)
V – Consumer 0° C to 50° C QS9000 customer
Z – Wide Range -30° C to 85° C QS9000 customer

VIEWING DIRECTION

None – 6:00
R – 3:00
L – 9:00
U – 12:00

LIGHT SOURCE COLOR

None – No lighting
A – Amber
B – Blue
G – Green
M – Multi-color
R – Red
W – White
Y – Yellow

LIGHT SOURCE TYPE

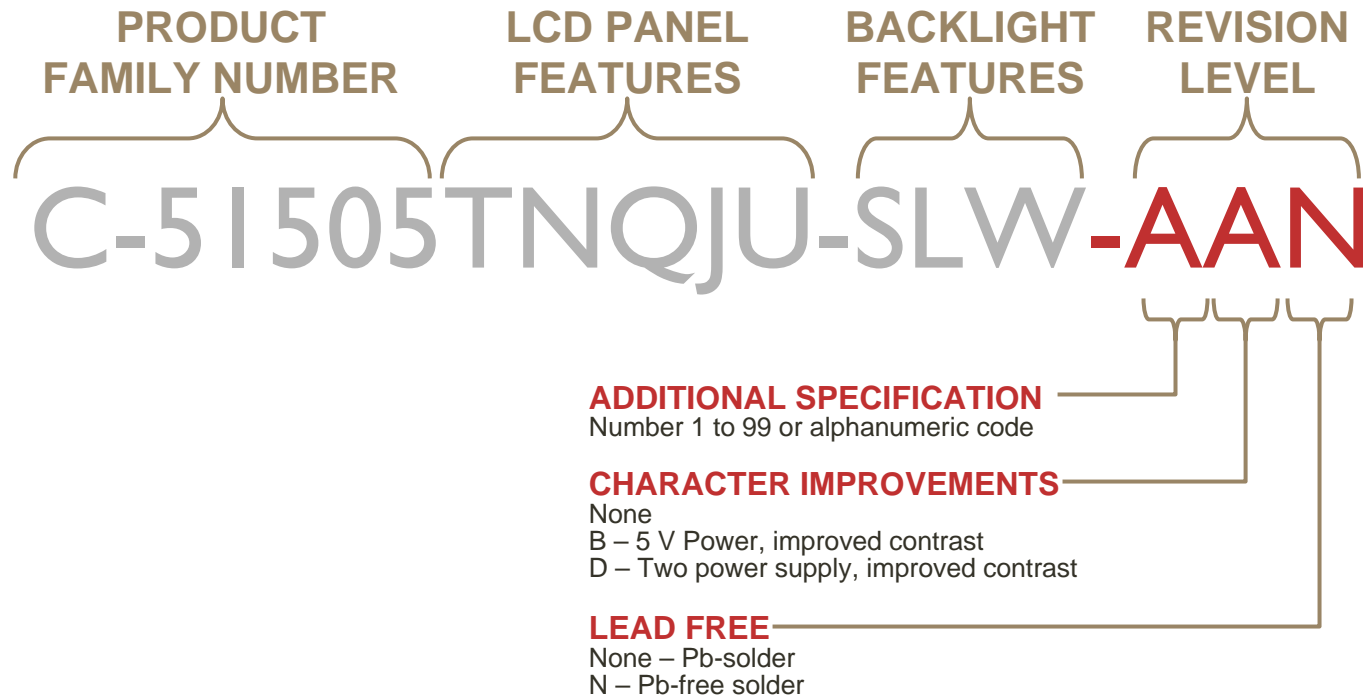
None – No light source
E – Electroluminescent
F – Cold Cathode Fluorescent Lamp
L – LED

ILLUMINATION TYPE

None – Transmissive with light source,
or Reflective
M – Transflective (internal mirror)
S – Transflective (rear polarizer)
T – Transmissive (no light source)



CHARACTER & GRAPHIC MODULES





ACTIVE MATRIX TFT MODULES

PRODUCT
FAMILY NUMBER

LCD PANEL
FEATURES

BACKLIGHT
FEATURES

REVISION
LEVEL

T-51811GL070HU-MLW-A-ABN

TYPE

T – TFT

MODEL NUMBER

3 to 5 Digits

CONNECTION TYPE

None – N/A
F – Chip On Flex (COF)
G – Chip On Glass (COG)
T – COG + COF

INTERFACE TYPE

D – Digital (CMOS or LVDS)
L – Analog (May or may not include timing controller; see spec)

MODULE SIZE

Diagonal Size in Tenths of Inches

TEMPERATURE RANGE

Rated Operating Temperatures
None – Consumer 0° C to 50° C
J – Above consumer level. See specification.
H – Wide Range -30° C to 85° C
V – Consumer 0° C to 50° C QS9000 customer
Z – Wide Range -30° C to 85° C QS9000 customer

VIEWING DIRECTION

None – 6:00
R – 3:00
L – 9:00
U – 12:00

ILLUMINATION TYPE

None – Transmissive w/ light, or Reflective
M – Transflective (internal mirror)
S – Transflective (rear polarizer)
T – Transmissive (no light source)

LIGHT SOURCE TYPE

None – No light source
E – Electroluminescent
F – Cold Cathode Fluorescent Lamp
L – LED

REVISION LEVEL

LEAD FREE

None – Pb-solder
N – Pb-free solder

INTERNAL NUMBER

None
A

LIGHT SOURCE COLOR

None – No lighting
W – White

PASSIVE COLOR MODES & APPLICATIONS

**NEUTRAL MODE
STN POSITIVE
DATA**

**NEUTRAL MODE
FSTN POSITIVE
DATA**

**NEUTRAL
MODE TN
POSITIVE DATA**

**NEUTRAL MODE
STN NEGATIVE
DATA**

**NEUTRAL MODE
FSTN NEGATIVE
DATA**

**NEUTRAL
MODE TN
NEGATIVE DATA**

In these graphics, the text represents image data.

Positive data mode – image pixels are turned ON and background pixels are OFF.

Negative data mode – image pixels are OFF and the background pixels are ON.

**BLUE MODE
STN POSITIVE
DATA**

**YELLOW MODE
STN POSITIVE
DATA**

**BLUE MODE
STN NEGATIVE
DATA**

**YELLOW MODE
STN NEGATIVE
DATA**

COLOR MODES & APPLICATIONS

MODE	CHAR	GRAPHIC
YELLOW MODE	✓	INFREQUENT USE
BLUE MODE		✓
STN NEUTRAL MODE	✓	✓
FSTN NEUTRAL MODE	✓	✓
FSTN HPC	✓	✓
TN NEUTRAL MODE	✓	CUSTOM AUTOMOTIVE

BACKLIGHT COLORS



White Color Dot
F-51852GNFQJ-LW-AAN



Green Color Dot
F-51852GNFQJ-LG-ACN



Red Color Dot
F51852GNFQJ-LR-AGN



Blue Color Dot
F-51852GNFQJ-LB-ABN



Yellow Color Dot
F-51852GNFQJ-LY-ADN



Winter White Background
F-51852GNFJ-SLW-AEN

“NFQ” displays use color LEDs in backlight

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera:

[T-51750GD065J-FW-ADN](#) [T-55265GD057J-LW-ACN](#) [T-55343GD035JU-LW-ADN](#)