FPD Total Solution Provider



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-51505TNQJU-SLW-AAN

TYPE-

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

MODEL NUMBER

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

None – Zebra

CONNECTION TYPE —

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)

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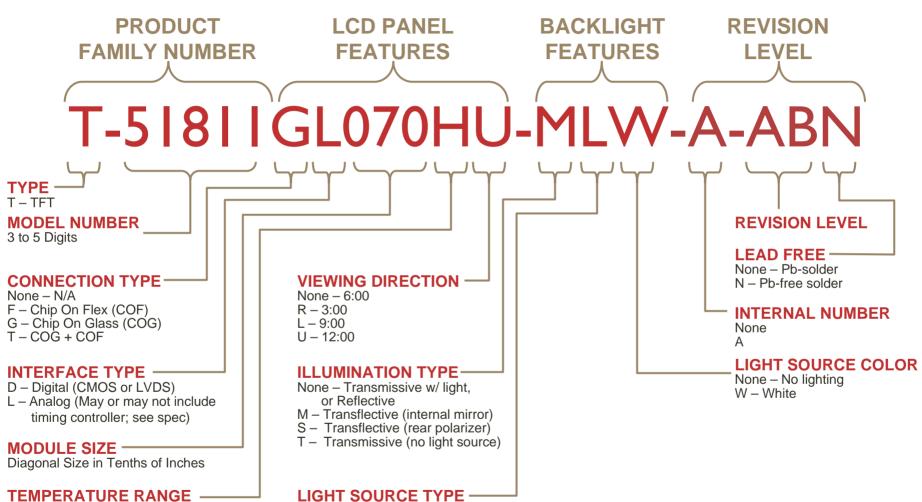
OPTREX*

CHARACTER & GRAPHIC MODULES

PRODUCT LCD PANEL BACKLIGHT REVISION **FAMILY NUMBER FEATURES FEATURES** LEVEL C-5 | 505TNQ|L ADDITIONAL SPECIFICATION Number 1 to 99 or alphanumeric code CHARACTER IMPROVEMENTS: None B – 5 V Power, improved contrast D – Two power supply, improved contrast LEAD FREE-None - Pb-solder N - Pb-free solder

Optrex America, Inc. **ACTIVE MATRIX TFT MODULES**





Z - Wide Range -30° C to 85° C QS9000 customer OAI-80018AA-7602-B Slide 5 of 7

Rated Operating Temperatures

None – Consumer 0° C to 50° C

H - Wide Range -30° C to 85° C

J – Above consumer level. See specification.

V – Consumer 0° C to 50° C QS9000 customer

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None - No light source

E - Electroluminescent

I - IFD

F - Cold Cathode Fluorescent Lamp

PASSIVE COLOR MODES & APPLICATIONS

OPTREX*

NEUTRAL MODE STN POSITIVE DATA

NEUTRAL MODE STN NEGATIVE DATA NEUTRAL MODE FSTN POSITIVE DATA

NEUTRAL MODE FSTN NEGATIVE DATA POSITIVE DATA
NEUTRAL

NEUTRAL

MODE TN

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

BLUE MODE STN NEGATIVE DATA YELLOW MODE STN POSITIVE DATA

YELLOW MODE STN NEGATIVE DATA

COLOR MODES & APPLICATIONS CHAR **GRAPHIC** MODE **INFREQUENT** YELLOW MODE **BLUE** MODE STN NEUTRAL MODE **FSTN** NEUTRAL MODE **FSTN** HPC NEUTRAL CUSTOM **AUTOMOTIVE** MODE

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BACK TO CHARACTER & GRAPHIC P/N BREAKDOWN



BACKLIGHT COLORS













"NFQ" displays use color LEDs in backlight