

# GSR TECHNOLOGY – LCM Checklist for Custom design

RFQ # : \_\_\_\_\_(For internal use only) FS# : \_\_\_\_\_(Filled by LCD Department)

|  |   |  |                        |
|--|---|--|------------------------|
| <b>Customer (End Customer):</b><br>-             | <b>Contact Person: (Customer side):</b><br>-    | <b>Date:</b><br>YY/MM/DD                                 | <b>Customer ref #:</b> |
| <b>Customer part / drawing #:</b><br>-           | <b>Expected MP Qty /Launch Date</b><br>YY/MM/DD | <b>Expected Prototype Qty /Delivery Date</b><br>YY/MM/DD |                        |
| <b>Target Price &amp; Estimated Revenue</b><br>- | <b>Market Life</b>                              | <b>Name of</b>   |                        |

| Department | Prepared By | Date           |
|------------|-------------|----------------|
| - _____    | Name _____  | YY/MM/DD _____ |
| _____      | _____       | _____          |
| _____      | _____       | _____          |
| _____      | _____       | _____          |

**Note :**

- a) Items with \* must be completed except item 4.0 Dimension
- b) For items without \*, GSR will propose if not filled

**1.0\* Application**

- 100 Transportation vehicle (included aviation, automotive)
- 101 Entertainment device (included Audio/Video/VCR/camcorder/walkman)
- 102 Telecommunication (included cell phone, pagers, in-house phone)
- 103 Office appliances (e.g. typewriter, copiers)
- 104 Game / Toys
- 105 Calculators, watches
- 106 Educational kits
- 107 Health care products/ Medical
- 108 CIT, PDAs, electronic diary, electronic dictionary
- 109 Home appliances (e.g. cooker, oven, refrigerator, air-conditioner)
- 110 Industrial appliances
- 111 Instrumental
- 112 Maritime
- 113 Military
- 114 Other \_\_\_\_\_

**2.0\* Module Technology**

- SMT    COB    COG    TCP    Others \_\_\_\_\_

**3.0 LCD**

- 3.1\* Type    Character : \_\_\_\_\_ characters   \_\_\_\_\_ line   \_\_\_\_\_ icons    see attachment    advised by GSR
- Graphics : \_\_\_\_\_ columns   \_\_\_\_\_ rows   \_\_\_\_\_ icons    see attachment    advised by GSR
- Segment : \_\_\_\_\_ segments    see attachment    advised by GSR

### 3.2\* Display Type

- TN<sup>1st</sup>    TN<sup>2nd</sup>    HTN    STN    FSTN    DSTN    FFSTN    ISTN  
 other \_\_\_\_\_    advised by Vx    see attachment

3.3 Mode    +VE    -VE    see attachment    other \_\_\_\_\_

3.4 Viewing    3    6    9    12    see attachment    other \_\_\_\_\_

### 3.5 Color

- Yellow    Silver    Blue    GREY (TN)    \_\_\_\_\_    see attachment

3.6 Polarizer :    STD    H.T.    see attachment

Type :    Transmissive    Tranflective    Reflective    Antiglare    Others    see attachment

## 4.0 Dimension – LCD

*\*(fill in at least one of the following dimensions)*

- 4.1\* Front Glass   \_\_\_\_\_ X \_\_\_\_\_    see attachment    advised by GSR  
 4.2\* Back Glass   \_\_\_\_\_ X \_\_\_\_\_    see attachment    advised by GSR  
 4.3\* V. A.   \_\_\_\_\_ X \_\_\_\_\_    see attachment    advised by GSR  
 4.4\* A. A.   \_\_\_\_\_ X \_\_\_\_\_    see attachment    advised by GSR

4.5 Thickness:    1.1    0.7    0.55    0.4    other \_\_\_\_\_    see attachment

4.6 L edge    1    2    3    L    other \_\_\_\_\_  
 see attachment

4.7 Contact pad pitch   \_\_\_\_\_    see attachment

4.8 Total thickness limitation   \_\_\_\_\_    see attachment

## 5.0 Operating Condition

5.1\* Driving method    static    multiple \_\_\_\_\_    see attachment    advised by GSR

5.2\* Storage temperature   \_\_\_\_\_ to \_\_\_\_\_ °C    see attachment

5.3\* Operating temperature   \_\_\_\_\_ to \_\_\_\_\_ °C    see attachment    advised by GSR

5.4\* Logical Voltage   \_\_\_\_\_ V nominal \_\_\_\_\_ V min \_\_\_\_\_ V max    advised by GSR

### 5.5\* LCD Driver Voltage

V<sub>lcd</sub>   \_\_\_\_\_ V nominal \_\_\_\_\_ Vmin \_\_\_\_\_ V max    see attachment    advised by GSR

Build-in    External    see attachment    advised by GSR

5.6 Logical current   \_\_\_\_\_ mA maximum    see attachment

5.7 Bias level   \_\_\_\_\_    see attachment

5.8 ESD (Electro-Static Discharge)   \_\_\_\_\_ V    see attachment    advised by GSR

## 6.0 Mechanical and Electrical Requirements *(Please tick relevant boxes and fill in the info if necessary)*

### 6.1\* Dimension – Module

Length   \_\_\_\_\_ MM nominal   \_\_\_\_\_ MM min   \_\_\_\_\_ MM max    see attachment    advised by GSR

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Width \_\_\_\_\_MM nominal \_\_\_\_\_MM min \_\_\_\_\_MM max  see attachment  advised by GSR  
Height \_\_\_\_\_MM nominal \_\_\_\_\_MM min \_\_\_\_\_MM max  see attachment  advised by GSR

6.2\*  Bezel

Metal

Special Requirement : (black painted if not specified) : \_\_\_\_\_

Need to solder to PCB  No need to solder to PCB

Plastic

6.3  Backlight  Not included

\*Color:  Amber  Green  Yellow  Red  White  other \_\_\_\_\_  advised by GSR

\*Supply Voltage \_\_\_\_\_ V  advised by GSR

\*Supply Current \_\_\_\_\_ mA  advised by GSR

\*Wavelength (*necessary for DSTN & -VE type*) \_\_\_\_\_  see attachment  advised by GSR

\*Brightness \_\_\_\_\_ Nit  advised by GSR

Backlight type :

1  LED

2  EL EL inverter included  Yes  No

3  CCFL CCFL inverter included  Yes  No

4 Other \_\_\_\_\_

6.4  Controller \_\_\_\_\_  see attachment

6.5  Drivers \_\_\_\_\_  see attachment

6.6  Internal Connection

Pin

No. of pin \_\_\_\_\_ Length of Pin \_\_\_\_\_ Pitch of Pin \_\_\_\_\_  see attachment

Zebra (Elastomer) \_\_\_\_\_  see attachment

H.S. \_\_\_\_\_  see attachment

FPC \_\_\_\_\_  see attachment

other \_\_\_\_\_

6.7  PCB \_\_\_\_\_  see attachment

6.8  Temperature Compensation \_\_\_\_\_  see attachment

6.9  Conformal Coating \_\_\_\_\_  see attachment

6.10  Interface Connector \_\_\_\_\_  see attachment

6.11  Header \_\_\_\_\_  see attachment

6.12  Label \_\_\_\_\_  see attachment  advised by GSR

6.13  Other consign parts \_\_\_\_\_  see attachment

## 7.0 Special Characteristics (Please fill in the information if necessary)

- 7.1 \_\_\_\_\_  see attachment  
7.2 \_\_\_\_\_  see attachment  
7.3 \_\_\_\_\_  see attachment

## 8.0 Additional Information (Please tick relevant boxes and fill in the info if necessary)

- 8.1  Special testing requirement \_\_\_\_\_  see attachment  
8.2  Test report submission \_\_\_\_\_  see attachment  
8.3  Electronic file \_\_\_\_\_  
8.4  Sample from customer \_\_\_\_\_  
8.5  Previous model Reference \_\_\_\_\_  
8.6  Packaging Requirement \_\_\_\_\_  see attachment  
8.7  Life Expectancy \_\_\_\_\_  see attachment

## 9.0 Product Safety Requirements (if necessary)

- 9.1 \_\_\_\_\_  
9.2 \_\_\_\_\_  
9.3 \_\_\_\_\_

### Remark