



3URGXFV 6SHFLILFDWLRQ
\$8 237521,&6 &25325\$7,21

(3) 3UHOLPLQDU\ 6SHFLILFDWLRQV (
))LQDO 6SHFLILFDWLRQV

| | |
|------------|---|
| ORGXOH | 15.6μ)+' &RORU 7)7-/' |
| ORGH0 1DPH | *156+7102.1 |
| 1RWH | /' EDFNOLJKW ZLWK GULYLQJ FLUFX\ GHVLJQ |

&XVWRPHU

'DWH

\$\$\$URYHG E\

'DWH

&U W\DO +VLHK

05/15/2015

&KHFNHG &
\$\$\$URYHG E\

'DWH

3UHSDUHG E\

'DWH

6DQG\ 6X

05/15/2015

1RWH: 7KL 6SHFLILFDWLRQ LV VXEJHFWRU
FKDQJH ZLWKRXW QRWLFH.

1%%8 ODUNHWLQJ 'LYLVRQ
\$8 2S WURQLFV & RUSRUDWLRQ



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&RQWHQWV

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5HFRUG RI 5HYLVLRQ

| 9HUVLRQ DQG ³DWH | 3DJH | 2QG ³HVFULSWLRQ | 1HZ ³HVFULSWLRQ | 5HPDUN |
|------------------|------|--------------------------|-----------------|--------|
| 0.0 2015/05/15 | \$00 | 1w (GLWLRQ IRU &XVWRPHUV | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



3URGXF 6SHFLILFDWLRQ

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1. +DQGOLQJ 3UHFDXWLRQV

- 1) 6LQFH IURQW SRODULJHU LV HDVLO\ GDPDJHG, SOHDVH EH FDXWLRXV DQG QRW WR VFUDWEK LW.
- 2) %H VXUH WR WXUQ RII SRZHU VXSSO\ ZKHQ LQVHUWLRQ RU GLVFRQQHFWRU IURP LQSW FRQQHFWRU.
- 3) = LSH RII ZDWHU GURS LPPHGLDWHO\ /RQJ FRQWDFW ZLWK ZDWHU PD\ FDXVH GLVFRURDWLRQ RU VSRWV.
- 4) = KHQ WKH SDQHO VXUIDFH LV VRLOHG, ZLSH LW ZLWK DEVRUEHQW FRWRQ RU VRIW FORWK.
- 5) 6LQFH WKH SDQHO LV PDGH RI JODVV, LW PD\ EH EURNHQ RU FUDFNHG LI GURSSHG RU EXPSHG RQ KDUGVXUIDFH.
- 6) 7R DYRLG (6' ((OHFWUR 6WDWLF 'LVFKDUGH) GDPDJH, EH VXUH WR JURXQG \RXUHOI EHIRUH KDQOLQJ 7)7- /&' ORGXOH.
- 7) 'R QRW RSHQ QRU PRGLI\ WKH PRGXOH DVVHPEO\.
- 8) 'R QRW SUHVV WKH UHOHFWRU VKHHW DW WKH EDFN RI WKH PRGXOH WR DQ\ GLUHFWLRQ.
- 9) ,Q FDVH LI D PRGXOH KDV WR EH SXW EDFN LQWR WKH SDFNLQJ FRQWDLQHU VORW DIWHU LW ZDV WDNHQ RXW IURP WKH FRQWDLQHU, GR QRW SUHVV WKH FHQWHU RI WKH /C' OLJKW EDU HGJH. ,QVWHDG, SUHVV DW WKH IDU HQGV RI WKH /C' OLJKW EDU HGJH VRIWO\ . 2WKHUZLVH WKH 7)7 ORGXOH PD\ EH GDPDJHG.
- 10) \$W WKH LQVHUWLRQ RU UHPRYDO RI WKH 6LQDO ,QWUIDFH &RQQHFWRU, EH VXUH QRW WR URWDWH QRU WLO\ WKH ,QWUIDFH &RQQHFWRU RI WKH 7)7 ORGXOH.
- 11) 7)7- /&' ORGXOH LV QRW DOORZHG WR EH WZLWVG & EHQW HYHQ IRUFH LV DGGHG RQ PRGXOH LQ D YHU\ VKRUW WLP. 3OHDVH GHVLJQ \RXU GLVSOD\ SURGXFW ZHO\ WR DYRLG H[WUQDO IRUFH DSSO\LQJ WR PRGXOH E\ HQG-XVHU GLUHFWO\.
- 12) 6PDOO DPRXQW RI PDWULDOV ZLWKRXW IODPPDELWL\ JUDGH DUH XVHG LQ WKH 7)7- /&' PRGXOH. 7KH 7)7- /&' PRGXOH VKRXOG EH VXSSOLHG E\ SRZHU FRPSOLHG ZLWK UHTXLUHPHQWV RI /LPHG 3RZHU 6RXUFH (, (&60950 RU 8/1950), RU EH DSSOLHG H[HPSWLRQ.
- 13) 6HYHUH WHPSHUDWXUH FRQGLWLRQ PD\ UHVXOW LQ GLIHUHQW OXPLQDQFH, UHVSQVH WLP DQG ODPS LJQLWLRQ YROWDJH.
- 14) &RQLQXRXV RSHUDWLRQ 7)7- /&' GLVSOD\ XQGHU ORZ WHPSHUDWXUH HQYLURQPHQW PD\ DFFHOHUDWH ODPS H[KDXVWLRQ DQG UHGXFH OXPLQDQFH GUDPDWLFDOO\.
- 15) 7KH GDWD RQ WKLW VSHFLILFDWLRQ VKHHW LV DSSOLFDEOH ZKHQ /&' PRGXOH LV SODFHG LQ ODQGVFDSH SRVLWLRQ.
- 16) &RQLQXRXV GLVSOD\LQJ IL[HG SDWVHUQ PD\ LQGXFH LPDJH VWLFNLQJ. ,WV UHFRPPHQGHG WR XVH VFUHHQ VDYHU RU VKXIIH FRQWHQW SHULRGLFDOO\ LI IL[HG SDWVHUQ LV GLVSOD\HG RQ WKH VFUHHQ.



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2. *HQHUDO ▯ HVFULSWLRQ

156+7102.1 LV D &RORU \$FWLYH ODWUL [/LTXLG &U\VWD ▯ LVSOD\ FRPSRVHG RI D 7)7 /& ▯ SDQHO, D GULYHU FLUFXLW, DQG /C ▯ EDFNOLJKW V\WHP. 7KH VFUHHQ IRU PDW LV LQWHQG HG WR VXSSRUW WKH 16:9)+', 1920(+ [1080(9) VFUHHQ DQG 16.20 FRORUV (5% 6-ELWV+2)5& GDWD GULYHU) ZLWK /C ▯ EDFNOLJKW GULYLQJ FLUFXLW.

*156+7102.1 LV GHVLJQHG IRU D GLVSOD\ XQLW RI LQGXVWULDO PDFKLQH.

2.1 *HQHUDO 6SHFLILFDWLRQ

7KH IROORZLQJ LWHPV DUH FKDUFDWHULVWLQV VXPPDU\ RQ WKH WDEOH DW 25 Ý& FRQGLWLRQ:

| ,WHPV | 8QLW | 6SHFLILFDWLRQV | | | |
|---|--------------|----------------------------------|-------|-------|-------|
| 6FUHHQ 'LDJRQDO | >LQFK@ | 15.6µ | | | |
| \$FWLYH \$UHD | >PP@ | 344.16(+ [193.59(9) | | | |
| 3L[HOV + [9 | | 1920 [3(5*%) [1080 | | | |
| 3L[HO 3LWFK | >PP@ | 0.17925 [0.17925 | | | |
| 3L[HO)RUPDW | | 5.*%. 9HUWLFDO 6WULSH | | | |
| LVSOD\ ORGH | | 71 ORGH, 1RUPDOO\ ± KLWH | | | |
| ± KLWH /XPLQDQFH (&HQWHU) (./C' 5OP\$,1RWH: ./C' LV /C' FXUUHQW) | >FG/P2@ | 400 7\S. 320 0LQ. | | | |
| /XPLQDQFH 8QLRUPLW\ | | 7% ▯ (5 SRLQWV, OD[.) | | | |
| &RQWUDW 5DWLR | | 500:1 (7\S.) | | | |
| 5HVSQVH 7LPH | >PV@ | 8 (7\S.) / 16 (OD[.) | | | |
| 1RPLQDO ,QSXW 9ROWDJH 9 ▯ ▯ | >9ROW@ | +3.3 (7\S.) | | | |
| /& ▯ 3RZHU &RQVXPSWLRQ | >:DWW@ | 3.76 ± (OD[.) | | | |
| /C ▯ 3RZHU &RQVXPSWLRQ | >± DWW@ | 10.6 ± (OD[.) | | | |
| :HLJKW | >*:UDPV@ | 7% ▯ (OD[.) | | | |
| 3K\WLFDO 6L]H ± LWKRXW EUDFNHW. | >PP@ | | 0LQ. | 7\S. | OD[. |
| | | /HQJWK | 363.3 | 363.8 | 364.3 |
| | | :LGWK | 215.4 | 215.9 | 216.4 |
| 7KLFNQHV | | 8.8 | 9.3 | 9.8 | |
| (OHFWULFDO ,QWHUIDFH | | 7ZR FKDQQHO /9'6 | | | |
| 6XUIDFH 7UHDWPHQW | | \$QW-JODUH (+DJH 25%) | | | |
| 6XSSRUW &RORU | | 16.20 &RORUV (5*% 6-ELWV +2)5&) | | | |
| 7HPSHUDWXUH 5DQJH 2SHUDWLQJ 6WRUDJH (1RQ-2SHUDWLQJ) | >R&@ >R&@ | -10 WR +70 -20 WR +70 | | | |



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2.2 2SWLFDO &KDUDFWHULVWLFW

7KH RSWLFDO FKDUDFWHULVWLFW DUH PHDVXUHG XQGHU VWDEOH FRQGLWLRQV DW 25Y& (5RRP 7HPSHUDWXUH) :

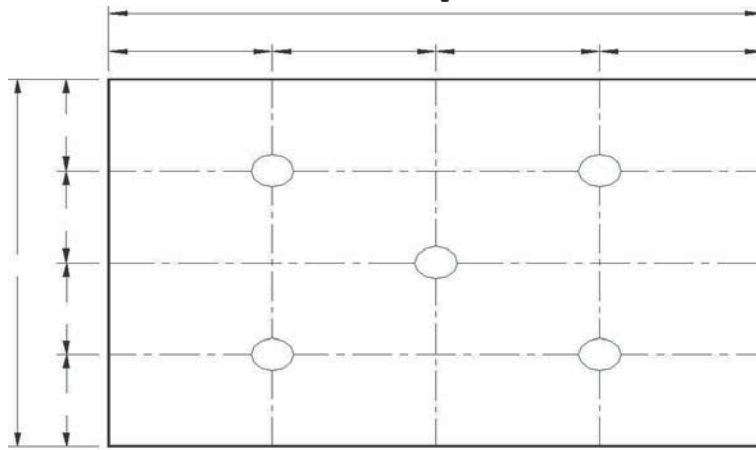
| ,WHP | 8QLW | &RQGLWLRQV | OLQ. | 7\S. | OD[. | 1RWH |
|------------------------------------|--------|-----------------------------------|----------|----------|------------|---------|
| &HQWDO /XPLQDQFH ./C' 50P\$ | FG/P2 | | 320 | 400 | --- | 1, 4, 5 |
| 9LHZLQJ \$QJPH | GHJUHH | +RULRQWD) (5LJKW) &5 10 (/HIW) | 60 60 | 70 70 | --- --- | 4, 9 |
| | | 9HULFD) (8SSHU) &5 10 (/RZHU) | 45 50 | 60 60 | --- --- | |
| /XPLQDQFH 8QLRUPLW\ | | 5 3RLQW | --- | --- | 7% ▾ | 1, 3, 4 |
| | | 13 3RLQW | --- | --- | 7% ▾ | 2, 3, 4 |
| &RQWUDVW 5DWLR | | | 400 | 500 | - | 4, 6 |
| &URVV WDN | | | --- | --- | 4 | 4, 7 |
| 5HVSRQVH 7LPH | PVHF | 5LVLQJ +)DOOLQJ | --- | 8 | 16 | 4, 8 |
| &RU / &KURPDWLFW\ &RRGLQDWHV | 5HG | 5[| 7% ▾ | 7% ▾ | 7% ▾ | 4 |
| | | 5\ | 7% ▾ | 7% ▾ | 7% ▾ | |
| | *UHHQ | *[| 7% ▾ | 7% ▾ | 7% ▾ | |
| | | *\ | 7% ▾ | 7% ▾ | 7% ▾ | |
| | %OXH | %[| 7% ▾ | 7% ▾ | 7% ▾ | |
| | | %\ | 7% ▾ | 7% ▾ | 7% ▾ | |
| | :KLWH | : [| 7% ▾ | *0.313 | 7% ▾ | |
| | | : \ | 7% ▾ | *0.329 | 7% ▾ | |
| 176& | % | | - | 72 | - | |



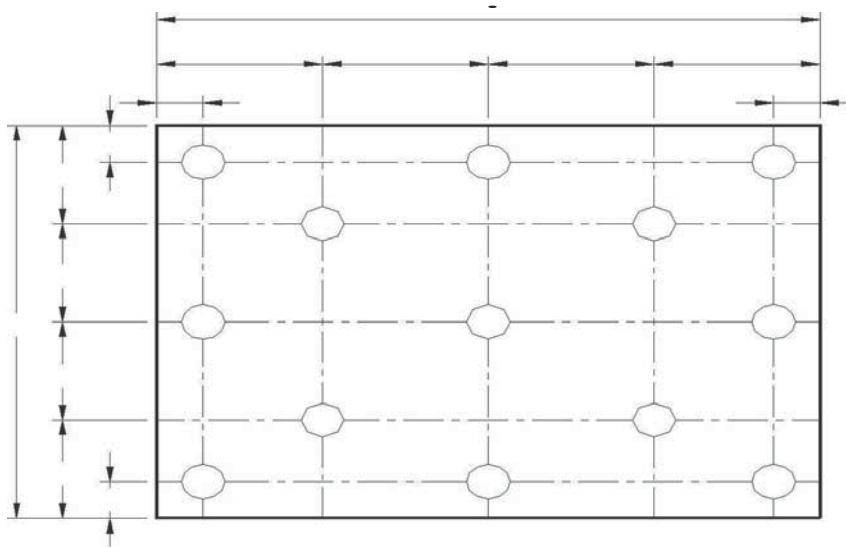
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1RWH 1: 5 SRLQWV SRVLWLRQ (5HI: \$FWLYH DUHD)



1RWH 2: 13 SRLQWV SRVLWLRQ (5HI: \$FWLYH DUHD)



1RWH 3: 7KH OXPLQDQFH XQLRU\PIW\ RI 5 RU 13 SRLQWV IV GHILQH E\ GLYLGLQJ WKH PD[LXP OXPLQDQFH YDOXH E\ WKH PLQLXP WHWV SRLQW OXPLQDQFH

$$8:5 \frac{OD[LPXP \%ULJKWQHVV \text{ RI ILYH SRLQWV}}{OIQLPXP \%ULJKWQHVV \text{ RI ILYH SRLQWV}}$$

$$8:13 \frac{OD[LPXP \%ULJKWQHVV \text{ RI WKLUWHHQ SRLQWV}}{OIQLPXP \%ULJKWQHVV \text{ RI WKLUWHHQ SRLQWV}}$$

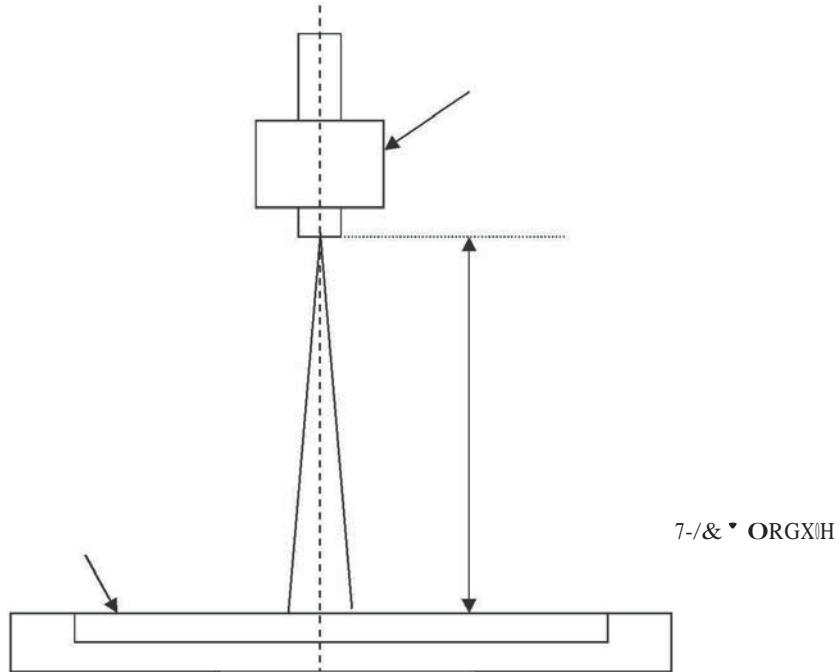


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1RWH 4: OHDVXUHPHQW PHWKRG

7KH /& * PRGXOH VKRXOG EH VWDELOLJHG DW JLYHQ WHPSHUDWXUH IRU 30 PLQXWHV WR DYRLG DEUXSW WHPSHUDWXUH FKDQJH GXULQJ PHDVXULQJ. ,Q RUGHU WR VWDELOLJH WKH OXPLODQFH, WKH PHDVXUHPHQW VKRXOG EH H[FXWHG DIWHU OLJKWLQJ %DFNOLJKW IRU 30 PLQXWHV LQ D VWDEOH, ZLQGOHVV DQG GDUN URRP, DQG LW VKRXOG EH PHDVXUHG LQ WKH FHQWHU RIVFUHHQ.



1RWH 5: 'HILQLWRQ RI \$YHUDJH /XPLQDQFH RI = KLWH (<):

OHDVXUH WKH OXPLODQFH RI JUD\ OHYHO 63 DW 5 SRLQWV < / (1)+ / (2)+ / (3)+ / (4)+ / (5)@ / 5 / (L) LV FRUUHVSRQGLQJ WR WKH OXPLODQFH RI WKH SRLQW ; DW)JXUH LQ 1RWH (1).

1RWH 6: 'HILQLWRQ RI FRQWUDV UDWLR:

&RQWUDV UDWLR LV FDOFXODWHG ZLWK WKH IROORZLQJ IRUPXOD.

$$\frac{\%ULJKWQHVV RQ WKH \text{ } = KLWH_{\mu} VWDWH}{\%ULJKWQHVV RQ WKH \text{ } \%DFN_{\mu} VWDWH}$$



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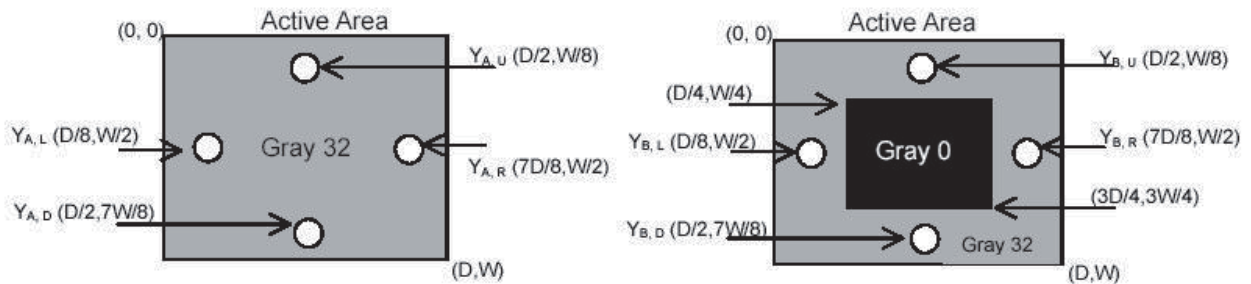
1RWH 7 路 HILQLWRQ RI &URVV 7DON (&7)

$$\&7 _ < \% ^2 < \$ _ / < \$ \delta 100 (\%)$$

:KHUH

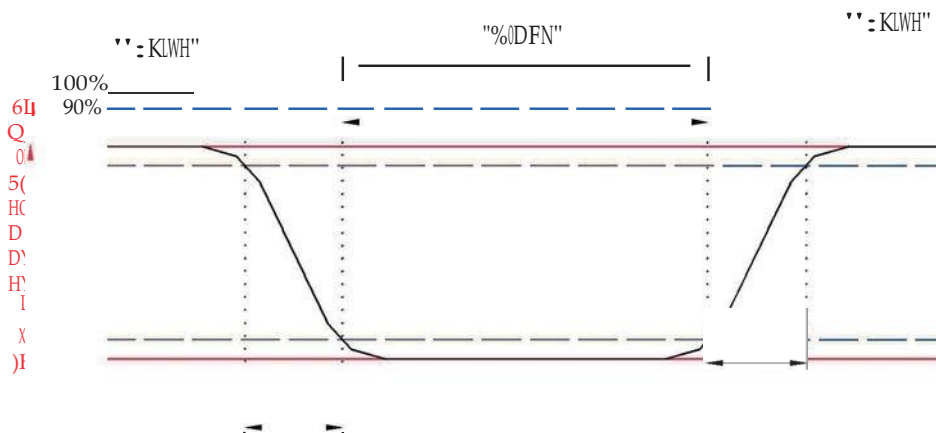
< \$ /XP!QDQFH RI PHDVXUHG @RFDWRQ ZLWKRXW JUD\ @HYHO 0 SDWWHUQ (FG/P₂)

< % /XP!QDQFH RI PHDVXUHG @RFDWRQ ZLWK JUD\ @HYHO 0 SDWWHUQ (FG/P₂)



1RWH 8: 路 HILQLWRQ RI UHVSQVH WLPH:

7KH RXWSXW VLIQDOV RI %0-7 RU HTXLYDOHQW DUH PHDVXUHG ZKHQ WKH LQSXW VLIQDOV DUH FKDQJHG IURP %ODFN_μ WR < :KLWH_μ (IDOOHQJ WLPH) DQG IURP < :KLWH_μ WR %ODFN_μ (ULVLQJ WLPH), UHVSHFWLYH\ . 7KH UHVSQVH WLPH [QWHUYDO] EHWZHHQ WKH 10% DQG 90% RI DPS@WXGHV. 5HHU WR ILJXUH DV EHRZ.



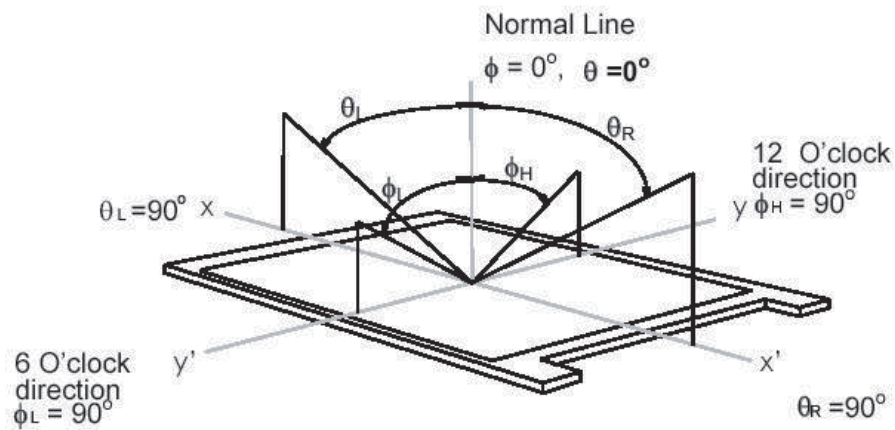


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1RWH 9. *HILQLWLRQ RI YLHZLQJ DQJOH

9LHZLQJ DQJOH LV WKH PHDVXUHPHQW RI FRQWUDVW UDWR !10, DW WKH VFUHHQ FHQWHU, RYHU D 180f KRULJRWDO DQG 180f YHUWLFDO UDQJH (RII-QRUPDO YLHZLQJ DQJOHV). 7KH 180f YLHZLQJ DQJOH UDQJH LV EURNHQ GRZQ DV IRORZV; 90f (1j) KRULJRWDO OHIW DQG ULJKW DQG 90f (3) YHUWLFDO, KLJK (XS) DQG ORZ (GRZQ). 7KH PHDVXUHPHQW GLUHFWRQ LV \SLFDOO\ SHUSHQGLFXODU WR WKH GLVSOD\ VXUIDFH ZLWK WKH VFUHHQ URWDWHG DERXW LWV FHQWHU WR GHYHORS WKH GHVLUH PHDVXUHPHQW YLHZLQJ DQJOH.



&URVVWDON DERYH IRU YLHZLQJ DQJOH XQGHU 3 * PRGH LV GHILQH DV EHORZ:

&URVVWDONB/HIW(%) /EODFN5ZKLWH /ZKLWH5EODFN

:KHUH

&URVVWDONB/HIW(%) PHDQV OHIW H\H FURVVWDON;

/EODFN PHDQV OHIW H\H EODFN VLJQDO;

5ZKLWH PHDQV ULJKW H\H ZKLWH VLJQDO;

/ZKLWH PHDQV OHIW H\H ZKLWH VLJQDO;

5EODFN PHDQV ULJKW H\H EODFN VLJQDO;

5LJKW H\H FURVVWDON LV GHILQH E\ DQDORJ.

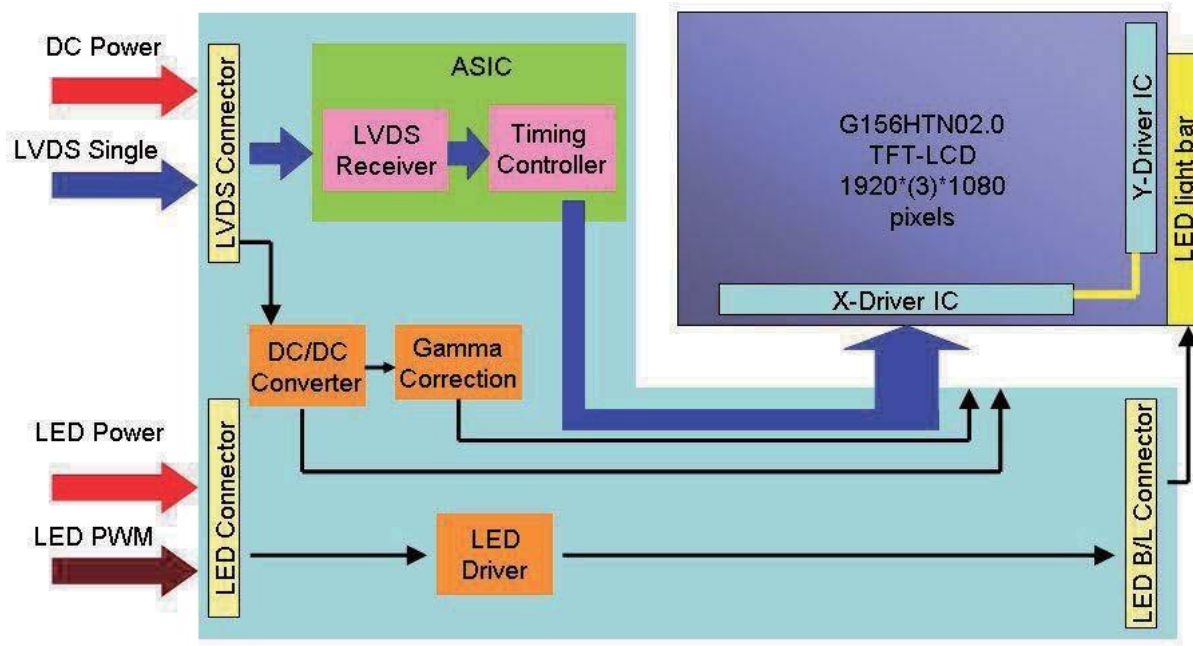


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3.)XQFWLRQDO %ORFN ³LDJUDP

7KH IRORZLQJ GLDJUDP VKRZV WKH IXQFWLRQDO EORFN RI WKH 15.6 LQFK &RORU 7)7-/& ' ORGXOH:





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4. ŠEVROXWH OD[LPXP 5DWLQJV

\$Q DEVROXWH PD[LPXP UDWLQJ RI WKH PRGXOH LV DV IROORZLQJ:

4.1 ŠEVROXWH 5DWLQJV RI 7)7 /&' ORGXOH

| WHP | 6 \ PER0 | OLQ | OD[| 8QLW | &RQGLWLRQV |
|-----------------|----------|------|------|-------|------------|
| /RJLF//&' *ULYH | 9LQ | -0.3 | +5.0 | >9RWE | 1RWH 1,2 |

4.2 ŠEVROXWH 5DWLQJV RI (QYLURQPHQW

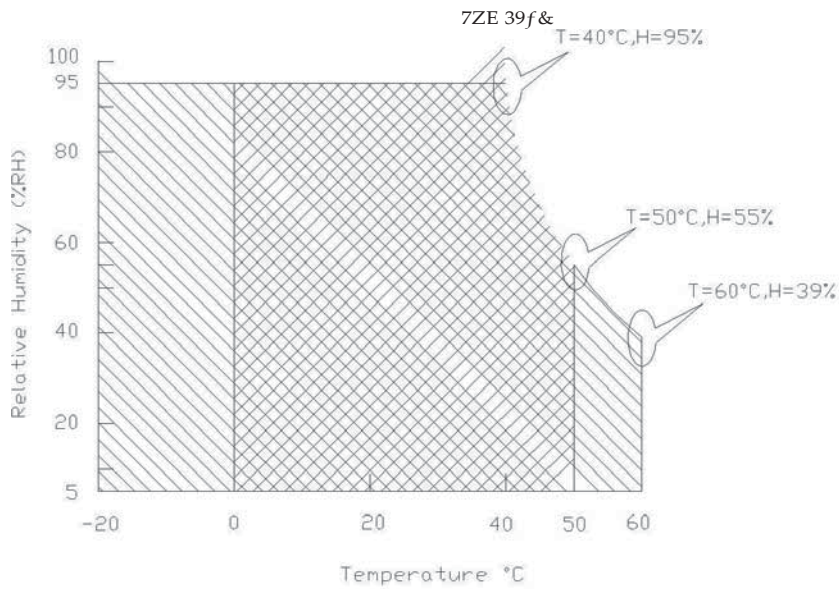
| WHP | 6 \ PER0 | OLQ | OD[| 8QLW | &RQGLWLRQV |
|----------------------|----------|-----|-----|-------|------------|
| 2SHUDWLQJ 7HPS. | 723 | 0 | +50 | >R&@ | 1RWH 4 |
| 2SHUDWLRQ +XPLGLW\ | +23 | 8 | 95 | >%5+@ | 1RWH 4 |
| 6WRUDJH 7HP SHUDWXUH | 767 | -20 | +60 | >R&@ | 1RWH 4 |
| 6WRUDJH +XPLGLW\ | +67 | 5 | 95 | >%5+@ | 1RWH 4 |

1RWH 1: \$W 7D (25 ȳ)

1RWH 2: 3HUPDQHQRW GDPDJH WR WKH GHYLFH PD\ RFFXU LI H[FHHG PD[LPXP YDOXH

1RWH 3: /C * VSHFLILFDWLRQ UHIHU WR VHFWRU 5.2

1RWH 4:)RU TXDOLW\ SHUIRUPDQFH, SOHDVH UHIHU WR \$82 „6 (QFRPLQJ ,QVSHFWLRQ 6WDQGDU)



2SHUDW... [diagram showing hatching patterns: a cross-hatch pattern followed by a plus sign and a diagonal-hatch pattern]

5. (OHFWULFDO & KDUDFWHULVWLFV

5.1 7)7 /&' ORGXOH

5.1.1 3RZHU 6SHFLILFDWLRQ

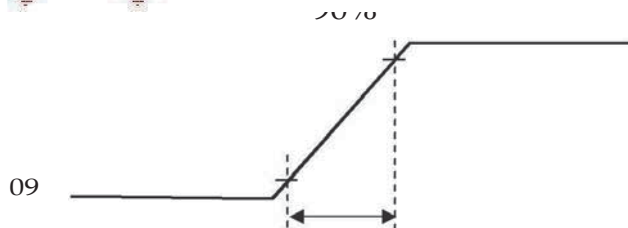
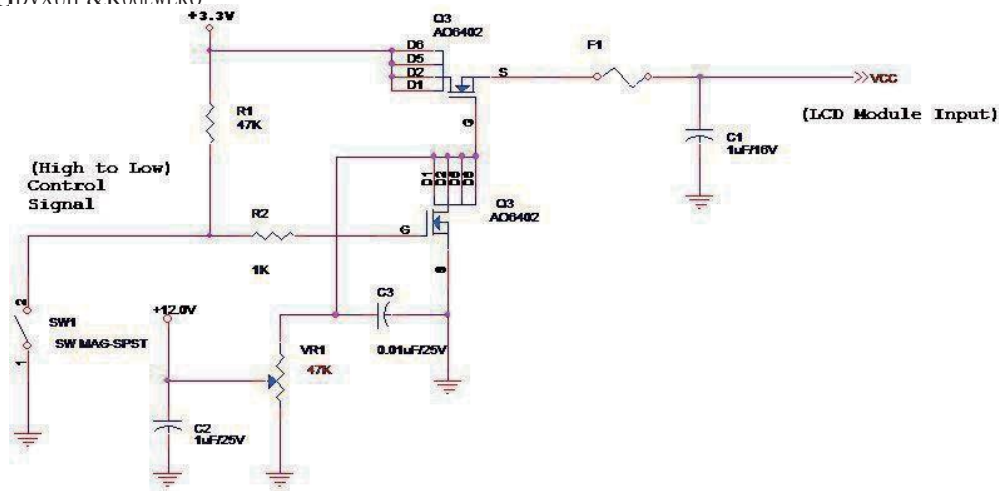
,QSW SRZHU VSHFLILFDWLRQV DUH DV IROORZV;

7KH SRZHU VSHFLILFDWLRQ DUH PHDVXUHG XQGHU 25C FDQG IUDPH IUHTXHQF\ XQGHU 60+]

| 6 \ PEOH | 3DUDPHWHU | OLQ | 7 \ S | OD [| 8QLWV | 1RWH |
|----------|--|-----|-------|------|-------------|--------|
| 9" | /RJLF//&' ULYH 9RWDJH | 3.0 | 3.3 | 3.6 | >9RWH | |
| 3" | 9" 3RZHU | - | 3.14 | 3.76 | >= DWH | 1RWH 1 |
| , " | , " & XUHQW | - | 950 | 1140 | >P\$ | 1RWH 1 |
| ,5XVK | ,QUXVK & XUHQW | - | - | 7% " | >P\$ | 1RWH 2 |
| 9" US | \$ORZDEOH /RJLF//&' ULYH SLSOH 9RWDJH | - | - | 7% " | >P9@ S-S | |

1RWH 1: OD [LPXP OHDVXUHPHQW & RQGLWLRQ 5HG 3DWHUQ

1RWH 2: OHDVXUH & RQGLWLRQ



9.Q ULVLQJ WLPH

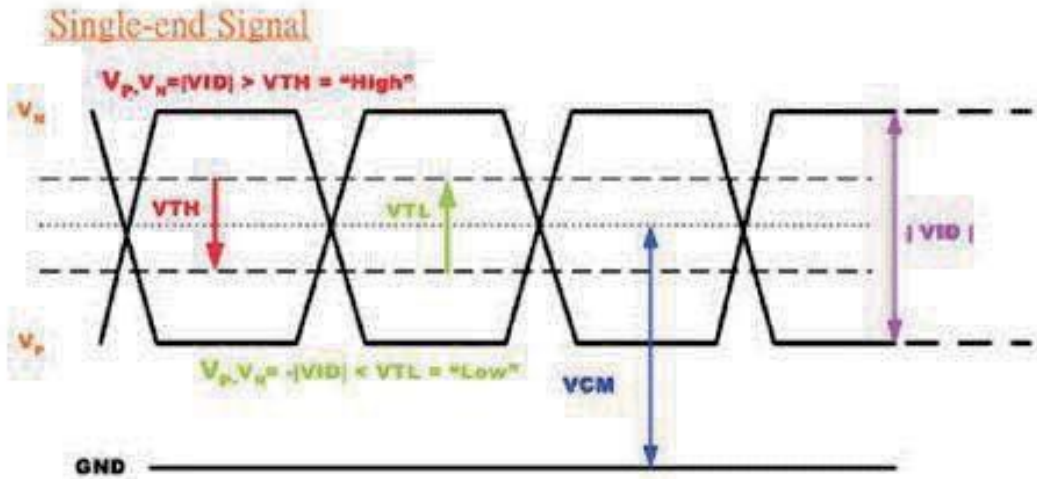
5.1.2 6LJQDO (OHFWULFDQ&KDUDFWHULVWLFV

,QSW VLJQDOV VKDOO EH ORZ RU +LJK-LPSHGDFH VWDWH ZKHQ 9 9 IV RII.

6LJQDO H&HFWULFDQ FKDUDFWHULVWLFV DUH DV IR&RZV;

| 3DUDPHWHU | &RQGLWLRQ | OLQ | OD[| 8Q[|
|-----------|---|-------|-------|------|
| 97+ | 'LIIHUHQWDO ,QSW +LJK 7KUHVKRQG (9FP +1.29) | --- | 100 | >P9@ |
| 97/ | 'LIIHUHQWDO ,QSW /RZ 7KUHVKRQG (9FP +1.29) | -100 | --- | >P9@ |
| —9:— | 'LIIHUHQWDO ,QSW 9R&WDJH | 100 | 600 | >P9@ |
| 9&0 | 'LIIHUHQWDO ,QSW &RPPRQ ORGH 9R&WDJH | 1.125 | 1.375 | >9@ |

1RWH 1: /9'6 6LJQDO = DYHIRUP





3URGXF 6SHFLILFDWLRQ

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5.2 %DFNOLJKW 8QLW

5.2.1 /C' FKDUDFWHULVWLFV

| 3DUDPHWHU | 6 \ PER0 | 0LQ | 7 \ S | OD[| 8QLWV | &RQG!WLRQ |
|--------------------------------|----------|-----|--------|-------|--------|---------------------|
| %DFNOLJKW 3RZHU &RQVXPSWLRQ | 3/C' | - | - | 10.6: | >:D^W@ | (7D 25d), 1RWH 1 |
| /C' /LIH-7LPH | 1/\$ | - | 50,000 | - | +RXU | (7D 25d), 1RWH 2 |

1RWH 1: &DOFXODWRU YDOXH IRU UHIIHUHQFH 3(C' 9) (1RUPDO LVWULEXWLRQ) * ,) (1RUPDO LVWULEXWLRQ) / (HILFLHQF\

1RWH 2: 7KH /C' QLIH-WLPH GHILQH DV WKH HVWLPHDWHG WLPH WR 50% GHJUDGDWLRQ RI LQWLD OXPQRXV.

5.2.2 %DFNOLJKW LQSW VLQDO FKDUDFWHULVWLFV

| 3DUDPHWHU | 6 \ PER0 | 0LQ | 7 \ S | OD[| 8QLWV | 5HPDUN |
|-------------------------------|----------|------|-------|------|-------|--|
| /C' 3RZHU 6XSS\ | 9/C' | 10.8 | 12.0 | 13.2 | >9R@ | 'HILQH DV &RQHFWRU ,QWHUIDFH (7D 25羲) |
| /C' (QDEOH ,QSW +LJK /HYH) | 9/C'(1 | 2.5 | - | 5 | >9R@ | |
| /C' (QDEOH ,QSW /RZ /HYH) | | - | - | 0.8 | >9R@ | |
| 3:O /RJF ,QSW +LJK /HYH) | 93:OB(1 | 2.5 | - | 5 | >9R@ | |
| 3:O /RJF ,QSW /RZ /HYH) | | - | - | 0.8 | >9R@ | |
| 3:O ,QSW)UHTXHQF\ |)3:O | 200 | - | 15. | +] | |
| 3:O *XW\ 5DWLR | 'XW\ | 5 | - | 100 | % | |



3URGXF 6SHFLILFDWLRQ
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6. 6LJQDO ,QWHUIDFH &KDUDFWHULVWLF

6.1 3L[HO)RUPDW ,PDJH

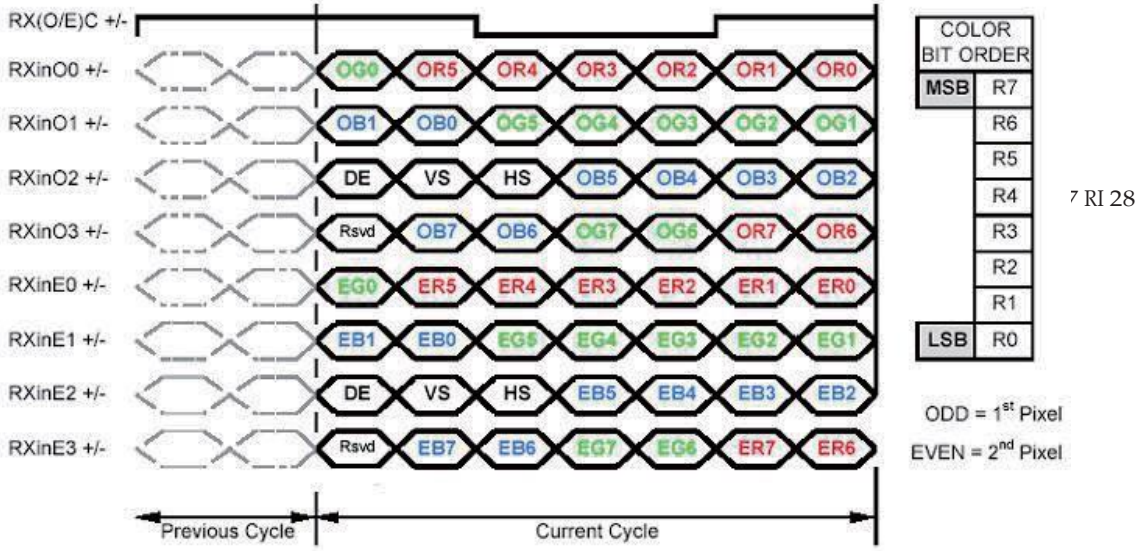
)R00RZLQJ ILJXUH VKRZV WKH UHODWLRQVKLS RI WKH LQSXW VLIJQDOV DQG /& ▽ SL[HO IRUPDW.

| | 1 | | | | | 1920 | | | | |
|------------|---|---|--|--|--|------|---|--|--|--|
| 1VW /LQH | | | | | | | | | | |
| | • | • | | | | • | • | | | |
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| | • | • | | | | • | • | | | |
| | • | • | | | | • | • | | | |
| | • | • | | | | • | • | | | |
| 1080WK /QH | | | | | | | | | | |



3URGXFV 6SHFLILFDWLRQ
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6.2 7KH ,QSXW 7DWD)RUPDW





3URGXFV 6SHFLILFDWLRQ

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6.3 6LJQDO 'HVFULSWLRQ

7KH PRGXOH XVLQJ RQH /9'6 UHFHLYHU 6175/9'682(7H[DV ,QVWUXPHQWV). /9'6 LV D GLIIHUHQWLDO VLIJQDO WHFKQRORJ\ IRU /&' LQWHUIDFH DQG KJJK VSHHG GDWD WUDQVVIHU GHYLFH. /9'6 WUDQVPLWV WKDOO EH 6175/9'682(QHJDWLYH HGJH VDPSOLQJ). 7KH ILUVW /9'6 SRUW(5[2[[[WUDQVPLWV RGG SL[HQV ZKLOH WKH VHFRQG /9'6 SRUW(5[[[[[WUDQVPLWV HYHQ SL[HQV.

| 3,1 # | 6,*1\$/ 1\$0(| '(6&5,37,21 |
|-------|---------------|---|
| 1 | 5[2,10- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 2 | 5[2,10+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 3 | 5[2,11- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 4 | 5[2,11+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 5 | 5[2,12- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD, *6370*) |
| 6 | 5[2,12+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD, *6370*) |
| 7 | * 1' | 3RZHU *URXQG |
| 8 | 5[2&/,1- | 1HJDWLYH /9'6 GLIIHUHQWLDO FORFN LQSW (2GG FORFN) |
| 9 | 5[2&/,1+ | 3RVLWLYH /9'6 GLIIHUHQWLDO FORFN LQSW (2GG FORFN) |
| 10 | 5[2,13- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 11 | 5[2,13+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW (2GG GDWD) |
| 12 | 5[(,10- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 13 | 5[(,10+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 14 | * 1' | 3RZHU *URXQG |
| 15 | 5[(,11- | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 16 | 5[(,11+ | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 17 | * 1' | 3RZHU *URXQG |
| 18 | 5[(,12- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 19 | 5[(,12+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 20 | 5[(&/,1- | 1HJDWLYH /9'6 GLIIHUHQWLDO FORFN LQSW ((YHQ FORFN) |
| 21 | 5[(&/,1+ | 3RVLWLYH /9'6 GLIIHUHQWLDO FORFN LQSW ((YHQ FORFN) |
| 22 | 5[(,13- | 1HJDWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 23 | 5[(,13+ | 3RVLWLYH /9'6 GLIIHUHQWLDO GDWD LQSW ((YHQ GDWD) |
| 24 | * 1' | 3RZHU *URXQG |
| 25 | * 1' | 3RZHU *URXQG |
| 26 | * 1' | 3RZHU *URXQG |
| 27 | * 1' | 3RZHU *URXQG |
| 28 | 32:(5 | 3RZHU +59 |
| 29 | 32:(5 | 3RZHU +59 |
| 30 | 32:(5 | 3RZHU +59 |



3URGXFV 6SHFLILFDWLRQ

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6.4 ,QWHUIDFH 7LPLQJ (/9'6)

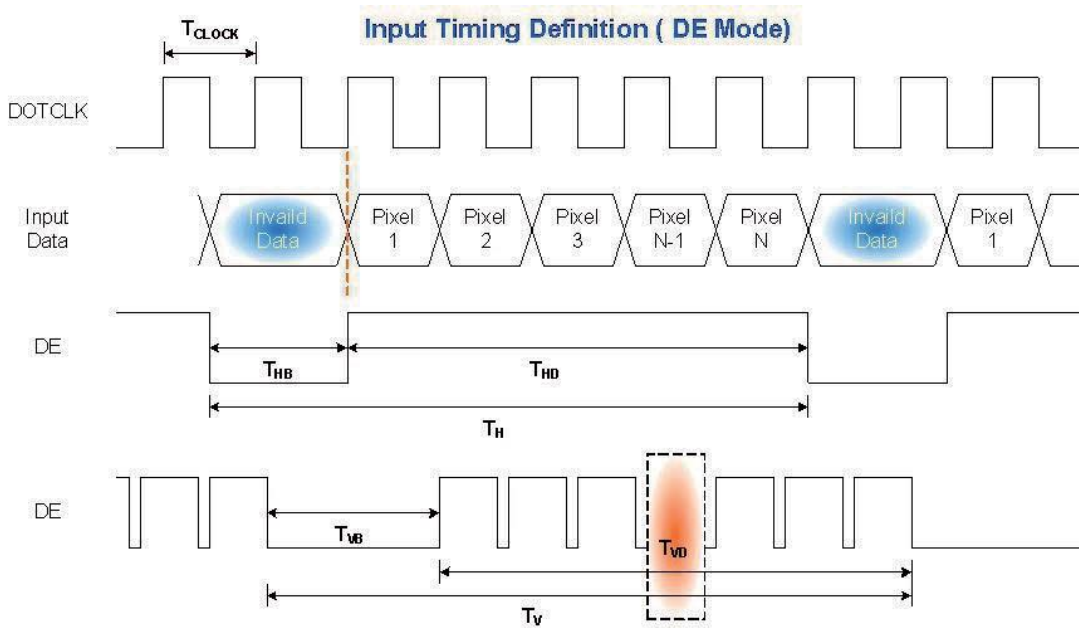
6.4.1 7LPLQJ & KDUDFWHULVWLFV

%DVLFD00), LQWHUIDFH WLP:QJV VKRXOG PDWFK WKH 1920[1080/ 60+] PDQXIDFWXUQJ JXLGH UHQ WLP:QJ.

| 3DUDPHIHU | 6\PER0 | 0LQ. | 7\S. | OD[. | 8QLW | |
|----------------------|----------|------|-------|------|------|--------|
| UDPH 5DWH | - | 40 | 60 | 60 | +] | |
| &ORFN UHTXHQF\ | 1/7&ORFN | 50 | 70.93 | 75 | 0+] | |
| +RULJRWDO 6HFILRQ | 3HULRG | 7+ | 1050 | 1065 | 1075 | 7FOREN |
| | \$FWLYH | 7+. | 960 | | | |
| | %0DQNIQJ | 7+% | 90 | 105 | 115 | |
| 9HUWLFDO 6HFILRQ | 3HULRG | 79 | 1090 | 1110 | 1130 | 7UQH |
| | \$FWLYH | 79. | 1080 | | | |
| | %0DQNIQJ | 79% | 10 | 30 | 50 | |

IRWH 1: *C PRGH RQ0.

6.4.2 7LPLQJ 'LDJUDP

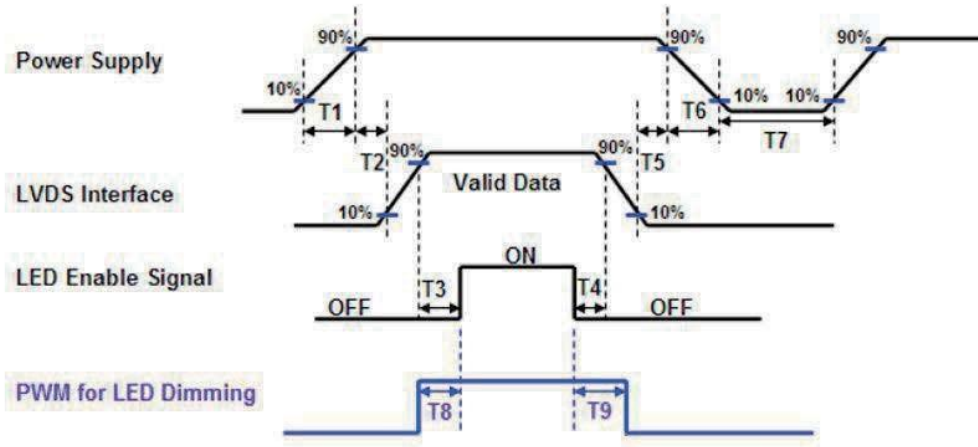




3URGXFV 6SHFLILFDWLRQ
\$8 237521,&6 &25325\$7,21

6.5 3RZHU 21/2))6HTXHGFH

∕C' RQ/RII VHTXHGFH LV DV IROORZV. ,QWHUIDFH VLJQDOV DUH DQVR VKRZQ LQ WKH FKDUW.



3RZHU 6HTXHGFH 7LPLQJ

| 9DIXH | | | |
|-----------|------|------|------|
| 3DUDPHWHU | OLQ. | OD[. | 8QLW |
| 71 | 0.5 | 10 | PV |
| 72 | 60 | 70 | |
| 73 | 400 | - | |
| 74 | 400 | - | |
| 75 | 0 | 50 | |
| 76 | 0 | 10 | |
| 77 | 500 | - | |
| 78 | 10 | 180 | |
| 79 | 10 | 180 | |

1RWH 1: ,I 74<400PV 7KH GLVSOD\ JDUEDJH PD\ RFFXU. = H VXJJHVW 74!400PV WR DYRLG WKH GLVSOD\ JDUEDJH.

1RWH 2: ,I 71 < 0.5PV 7KH LQXVK FXUUHQW PD\ FDXVH WKH GDPDJH RI IXVH. ,I 71 < 0.5PV 7KH LQXVK FXUUHQW ,2W LV XQGHU W\SLFD\ PHW RI IXVH 6SHF. 7KHUH LV QR PHQWLRQHG SUREOHP.



3URGXFV 6SHFLILFDWLRQ

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7. &RQQHFWRU & 3LQ \$VVLJQPHQW

3K\VLFDQ LQWHUIDFH LV GHVFULEHG DV IRU WKH FRQQHFWRU RQ PRGXOH. 7KHVH FRQQHFWRUV DUH FDSDEOH RI DFFRPPRGDNLQJ WKH IRORZLQJ VLTQDOV DQG ZLWQ EH IRORZLQJ FRPSRQHQWV.

7.1 7)7 /&' ORGXOH

| &RQQHFWRU 1DPH / °HVLJQDWLRQ | ,QWHUIDFH &RQQHFWRU / ,QWHUIDFH FDUG |
|------------------------------|--------------------------------------|
| ODQXIDFWXUHU | +56 |
| 7\SH 3DUW 1XPEHU | °)14+-303-1.25+ |
| ODNLQJ +RXVLQJ 3DUW 1XPEHU | °)14+-306-1.25& |

7.1.1 3LQ \$VVLJQPHQW

| 3LQ# | 6LJQDQ 1DPH | 3LQ# | 6LJQDQ 1DPH |
|------|--------------|------|--------------|
| 1 | 5[2,10- | 2 | 5[2,10+ |
| 3 | 5[2,11- | 4 | 5[2,11+ |
| 5 | 5[2,12- | 6 | 5[2,12+ |
| 7 | *1' | 8 | 5[2&./,1- |
| 9 | 5[2&./,1+ | 10 | 5[2,13- |
| 11 | 5[2,13+ | 12 | 5[(,10- |
| 13 | 5[(,10+ | 14 | *1' |
| 15 | 5[(,11- | 16 | 5[(,11+ |
| 17 | *1' | 18 | 5[(,12- |
| 19 | 5[(,12+ | 20 | 5[(,12&./,1- |
| 21 | 5[(,12&./,1+ | 22 | 5[(,13- |
| 23 | 5[(,13+ | 24 | *1' |
| 25 | *1' | 26 | *1' |
| 27 | *1' | 28 | 32 = (5 |
| 29 | 32 = (5 | 30 | 32 = (5 |

7.2 %DFNOLJKW 8QLW

3K\VLFDQ LQWHUIDFH LV GHVFULEHG DV IRU WKH FRQQHFWRU RQ PRGXOH. 7KHVH FRQQHFWRUV DUH FDSDEOH RI DFFRPPRGDNLQJ WKH IRORZLQJ VLTQDOV DQG ZLWQ EH IRORZLQJ FRPSRQHQWV.

| &RQQHFWRU 1DPH / °HVLJQDWLRQ | /DPS &RQQHFWRU / %DFNOLJKW 0DPS |
|------------------------------|---------------------------------|
| ODQXIDFWXUHU | +56 |
| 7\SH 3DUW 1XPEHU | '14\$-63-1.25+ |
| ODNLQJ 7\SH 3DUW 1XPEHU | '14-66-1.25& |



3URGXFV 6SHFLILFDWLRQ

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7.2.1 /(" "ULYHU &RQQHFWRU 3LQ \$VVLJQPHQW

| 3LQ 1R. | 6\PERO | 'HVFULSWLRQ |
|---------|---------|-------------------|
| 3LQ1 | 9/(" | 129 LQSXW |
| 3LQ2 | 9/(" | 129 LQSXW |
| 3LQ3 | *1" | *1" |
| 3LQ4 | *1" | *1" |
| 3LQ5 | 2Q/2)) | 3.3-59:21, 09:2)) |
| 3LQ6 | 'LPP\QJ | 3:0 |

1R\H1: 6\DUW IURP ULJKW VLGH

1R\H2: &RQQHFWRU ,00XVWUDWLRQ



3URGXF 6SHFLILFDWLRQ

\$8 237521,&6 &25325\$7,21

8. 3DQHO 5HOLDELWLW\ 7HVW

8.1 9LEUDWLRQ 7HVW

7HVW 6SHF:

- z 7HVW PHWKRG: 1RQ-2SHUDWLRQ
- z \$FFH0HUDWLRQ: 1.5 *
- z)UHTXHQF\ : 10 - 500+] 5DQGRP
- z 6ZHHS: 30 OIQXWHV HDFK \$[LV (;, <, =)

8.2 6KRFN 7HVW

7HVW 6SHF:

- z 7HVW PHWKRG: 1RQ-2SHUDWLRQ
- z \$FFH0HUDWLRQ: 220 * , +D0I VLQH ZDYH
- z \$FWLYH WLPH: 2 PV
- z 3X0VH: ;,< , = RQH WLPH IRU HDFK VLGH

8.3 5HOLDELWLW\ 7HVW

| ,WHPV | 5HTXLUHG &RQGLWLRQ | 1RWH |
|----------------------------|--|----------|
| 7HPSHUDWXUH +XPLGLW\ %LDV | 7D 40Ý&, 90%5+, 300K | 1RWH 1,2 |
| +LJK 7HPSHUDWXUH 2SHUDWLRQ | 7D 70Ý& , 'U\, 300K | |
| /RZ 7HPSHUDWXUH 2SHUDWLRQ | 7D -10Ý&, 300K | |
| +LJK 7HPSHUDWXUH 6WRUDJH | 7D 70Ý&, 'U\, 300K | |
| /RZ 7HPSHUDWXUH 6WRUDJH | 7D -20Ý&, 300K | |
| 7KHUPDO 6KRFN 7HVW | 7D -20Ý& WR 60Ý&, *XUDWLRQ DW 30 PLQ, 100 F\FOHV | 1RWH 1 |
| (6 * | &RQWDFW : "8 .9 (7% *) \$LU : "15 .9 (7% *) | |

1RWH 1: \$FFRUGLQJ WR (1 61000-4-2 , (6' FIDVV %: 6RPH SHUIRUPDQFH GHJUDGDWLRQ D0RZHG.

6H0I-UHFRYHUDEOH. 1R GDWD ORVV, 1R KDUGZDUH IDLOXUHV.

1RWH 2:

- z = DWHU FRQGHQVDWLRQ LV QRW D0RZHG IRU HDFK WHVW WHPV.
- z (DFK WHVW LV GRQH E\ QHZ 7)7- /&' PRGXOH. 'RQ- W XVH WKH VDPH 7)7- /&' PRGXOH UHSHDWHGO\ IRU UHOLDELWLW\ WHVW.
- z 7KH UHOLDELWLW\ WHVW LV SHUIRUPHG RQ\ WR H[PLQH WKH 7)7- /&' PRGXOH FDSDELWLW\.
- z 7R LQVSHFW 7)7- /&' PRGXOH DIWHU UHOLDELWLW\ WHVW, SOHDVH VWRUH LW DW URRP WHPSHUDWXUH DQG URRP KXPGLW\ IRU 24 KRXUV DW OHDVV LQ DGYPDQFH.
- z 1R IXQFWLRQ IDLOXUH RFFXUV. 0XUD VKD0 EH LJQRUHG DIWHU KLJK WHPSHUDWXUH UHOLDELWLW\ WHVW



3URGXFV 6SHFLILFDWLRQ

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9. 6KLSSLQJ DQG 3DFNDJH

9.1 6KLSSLQJ /DEHO)RUPDW



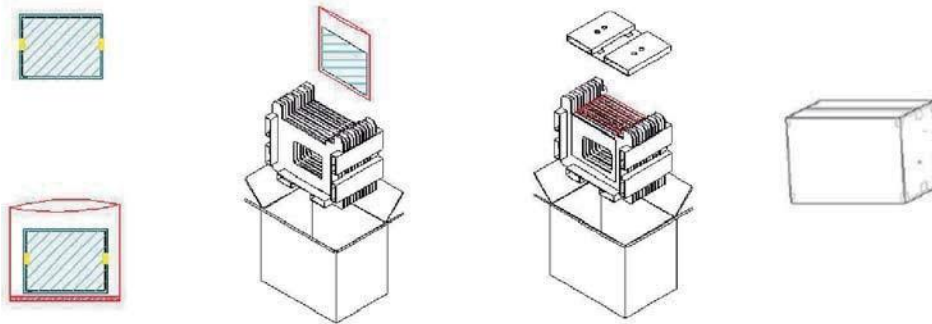
1RWH 1:)RU 3E)UHH SURGXFW, \$82 ZLOO DGG (Pb) IRU LGHQWLILFDWLRQ.

1RWH 2:)RU 5R+6 FRPSDWLEOH SURGXFW, \$82 ZLOO DGG (RoHS) IRU LGHQWLILFDWLRQ.

1RWH 3:)RU &KLQD 5R+6 FRPSDWLEOH SURGXFW, \$82 ZLOO DGG (15) IRU LGHQWLILFDWLRQ.

1RWH 4: 7KH *UHHQ ODUN ZLOO EH SUHVHQWHG RQ\ ZKHQ WKH JUHHQ GRFXPHQWV KDYH EHHQ UHGD\ E\ \$82 QWHUQD\ *UHHQ 7HDP.

9.2 &DUWRQ 3DFNDJH



OD[FDSDFLW\ 16 7)-/&' PRGXOH SHU FDUWRQ

OD[ZHLJKW: 16.3 NJ SHU FDUWRQ

2XVWLGH GLPHQLVLRQ RI FDUWRQ: 450PP(/)*375PP(=)*319PP(+)

3DOOHW VLJH\ 1150 PP * 910 PP * 132PP



3URGXFV 6SHFLILFDWLRQ

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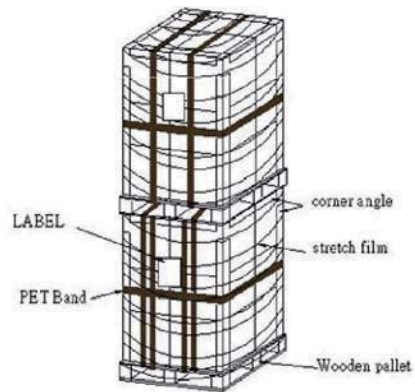
%R[VWDFNHG

ORGXIH E\ DU(2 *3) *4 (D\HUVQRH SDOOHV SXW 24 ER[HVWRWD) 384SFV PRGXOH

ORGXIH E\ VHD(2 *3) *4 (D\HUV+(2 *3) *1 (D\HUVWRZR SDOOHV SXW 30 ER[HVWRWD) 480SFV PRGXOH

ORGXOH E\ VHDB+4(2 *3) *4 (D\HUV+(2 *3) *2 (D\HUVWRZR SDOOHV SXW 42 ER[HVWRWD) 576 SFV PRGXOH

9.3 6KISSLQJ 3DFNDJH RI 3DOOHVW[LQJ 6HTXHGFH



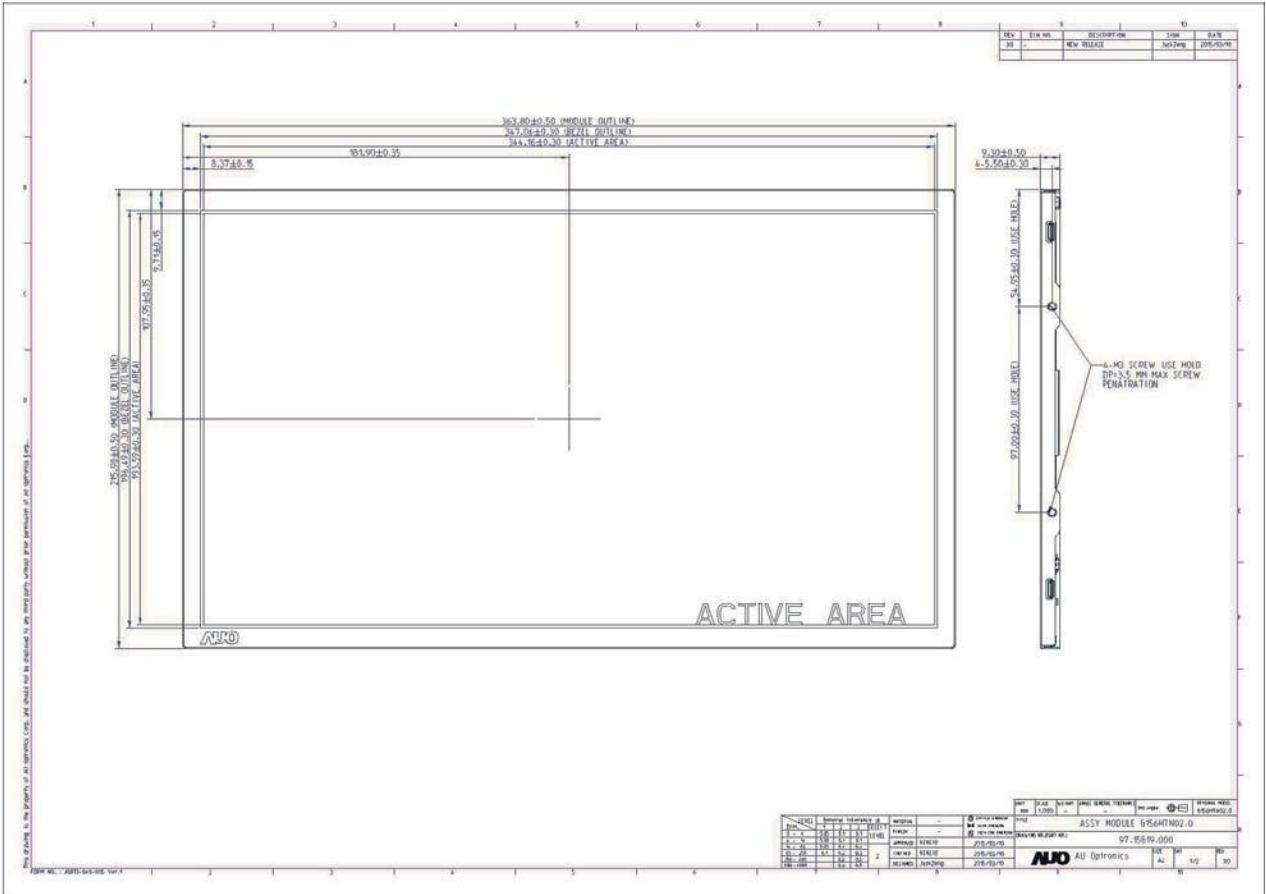


3URGXFW 6SHFLILFDWLRQ

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10 .0HFKDQLFDO &KDUDFWHULVWLFV

10.1 /&0 2XWOLQH 'LPHQVLRQ (JURQW 9LHZ)





3URGXF 6SHFLIFDWRQ

\$8 237521,&6 &25325\$7,21

10.2 /&0 2XWOLQH 'LPHQVLRQ (5HDU 9LHZ)

