



17 & WKHUPLVWRUV IRU WHP SHUDWXUH PHDVXUHPHQW

*ODVV HQFDSVXODWHG VHQVRUV
VWDQGDUG W\SH

6HULHV 7\SH % * % *

7KH IROORZLQJ SURGXFWV SUHVHUYHG DW HQWURJHWLRQ GDWD VKHHW

2 UGHULQJ & RGH	6 XEV	WLWXWH 3	URDG WQH' /	DDMMR	6 KLS PHQW
% *	% *	:LWKGUDZ	20GHUV		
% *	% *				

)RU IXUWKHU LQIRUPDWLRQ SOHDVH FRQFWDZM LVRX ZLGH D D V W
(RX LQ VHOHFWLQJ D VXLWDEOH VXEVWDQGV ZKHV VDKH D GHVZRUH
SUHVHQWHG DW ZZZ HSRV FRP VDOHV

((3&26 \$* 5HSURGXFWLRQ SXEOLFDWLRQ DQG LQWHUHQVLRQDO LQVWLWXWLRQ RHWK
LQIRUPDWLRQ FRQWDLQHG WKHUHLQ ZLWKRXWE (3&26 SULRU H[SUHVV FRQ

7HPSHUDWXUH PHDVXUHPHQW % * % *
 *ODVV HQFDSVXODWHG VHQVRUV * *

\$SSOLFDWLRQV 'LPHQVLRQDO GUDZLQJ

■ 7HPSHUDWXUH PHDVXUHPHQW

)HDWXUHV

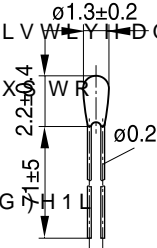
■ *ODVV HQFDSVXODWHG KHDW UHVLVWLY IYHQDQG
 KLJKO\ VWDEOH

■)RU WHPSHUDWXUH PHDVXUHPHQW XG
 °&

■ 9HU\ VKRUW UHVSQRVH WLPH

■ 6PDOO GLPHQVLRQV

■ /HDGV GXPHW ZLUHV FRSSHU FODG



2SWLRQV

■ /HDGV QLFNHO SODWHG GXPHW ZLUHV TNT0280-6

■ \$OWHUQDWLYH GLPHQVLRQV DYDLODEOH RQ UHTXHVW

'HOLYHU\ PRGH

'LPHQVLRQV LQ PP

%XON

*HQHUDO WHFKQLFDO GDWD

&OLPDWLF FDWHJRU\ , (& 0D[SRZHU ° W 5HVLVWDQFH WROHUDQFH 5DWHG WHPSHUDWXUH 'LVVLSDWLRQ IDFWRU 7KHUPDO FRROLQJ WLPH FRQVW +HDW FDSDFLW\	3 D_{5_s} 5 _s 7_s d_{wQ} DL d_{wK}	$\pm \pm \pm$ DSSUR[DSSUR[DSSUR[P: ° & P: . V P- .
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7HPSHUDWXUH PHDVXUHPHQW % * % *
 *ODVV HQFDSVXODWHG VHQRUV * *

(OHFWULFDO VSHFLILFDWLRQ DQG RUGHULQJ FRGHV

5 W	1R RI 5 FKDUDFW	7% W.HULVWL	% F	% .	2UGHULQJ FRGH
N			±		% *
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N			±		% *

5HVLVWDQFH WROHUDQFH
) ±
 * ±
 + ±

7KH ODVW WKUHH GLJLWV RI WKH RUGHULQJ FRGH GHQRWH
 DQG GXPHW ZLUHV
 DQG QLFNHO SODWHG ZLUHV

%
 %



7HPSHUDWXUH PHDVXUHPHQW % * % *
 *ODVV HQFDSVXODWHG VHQVRUV * *

5HOLDELOLW\ GDWD

7HVW	6WDQGDZHVW FRQGLWLRQV	D5 5 W\SLFD	5HPDUNV DO
6WRUDJHLQ GU\KHDW	,(& G\PS	6WRUDJH DW XSSHU FDWHJRU\ WHPSHUDWXUH 7 °& W K	1R YLVLEOH GDPDJH
6WRUDJHLQ KHDW VWH	G\PS G\VWDW	7HPSHUDWXUH&RIDLU EHODWLYH KXPLGLW\RIDLU 'XUDWLRQ GD\V	1R YLVLEOH GDPDJH
5DSLGH WHPSHU F\FOLQJ	H\DWXUH	HRZHU WHVW WHPSHU 8SSHU WHVW WHPSHU 1XPEHURIF\FOHV	1R YLVLEOH GDPDJH



7HPSHUDWXUH PHDVXUHPHQW

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*ODVV HQFDSVXODWHG VHQRUV

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5 7 FKDUDFWHULVWLFV

5 7 1 R						
7 ° &	%	.	%	.	%	.
	5 ₇ 5	a .	5 ₇ 5	a .	5 ₇ 5	a .



7HP SHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQRUV

* *

5 7 1 R						
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	5 ₇ 5	a .	5 ₇ 5	a .	5 ₇ 5	a .



7HPSHUDWXUH PHDVXUHPHQW

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*ODVV HQFDSVXODWHG VHQRUV

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5 7 FKDUDFWHULVWLFV

5 7 1 R						
7 ° &	%	.	%	.	%	.
	5 ₇ 5	a	5 ₇ 5	a	5 ₇ 5	a



7HPSHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQRUV

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5 7 1 R						
7 ° &	%	.	%	.	%	.
	5 ₇ 5	a .	5 ₇ 5	a .	5 ₇ 5	a .



7HPSHUDWXUH PHDVXUHPHQW

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*ODVV HQFDSVXODWHG VHQRUV

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5 7 F KDUDFWHULVWLFV

5 7 1 R						
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	5 ₇ 5	a .	5 ₇ 5	a .	5 ₇ 5	a .



7HPSHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQRUV

* *

5 7 1 R						
7 ° &	%	.	%	.	%	.
	5 ₇ 5	a	5 ₇ 5	a	5 ₇ 5	a



7HPSHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQRUV

* *

5 7 FKDUDFWHULVWLFV

5 7 1 R								
7 ° &	%		.	7 ° &	%		.	7 ° &
	5 ₇	5	a	.		5 ₇	5	a



7HPSHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQVRUV

* *

0RXQWLQJ LQVWUXFWLRQV

6ROGHULQJ

/HDG HG 17 & WKHUPLVWRUV

/HDG HG WKHUPLVWRUV FRPSO\ ZLWK WKH VROGHUDELOLW\ UHTXLV
:KHQ VROGHULQJ FDUH PXVW EH WDNHQ WKDW WKH HIIRUHWHUYHP
KHDW 7KH IROORZLQJ PD[LXP WHPSHUDWXUH V PDVLOXPVWLPDHY
WR EH REVHUYHG

Dip soldering Iron soldering

%DWK WHPSHUDWXUH ° &

PD [° &

6ROGHULQJ WLPH

PD [V

PD [V

'LVWDQFH IURP WKHUPLVWRU

PLQ PP

PLQ PP

8QGHU PRUH VHYHUH VROGHULQJ FRQGLWLRQV WKH UHVLVWDQFH

/HDGOHV 17 & WKHUPLVWRUV

,Q FDVH RI 17 & WKHUPLVWRUV ZLWKRXW OHDGV LROGHULSUURLYL
ZLWK D VROGHUDEOH PHWDOOL]DWLRQ 7KH WHPSHUDWXUH RI HKRWR
PD\SURGXFH ILQH FUDFNV LQ WKH FHUPLF UHVXOWLQJ LQ FKDQ
7R SUHYHQW OHDFKLQJ RI WKH PHWDOOL]DWLRQ WKH GRZ ZLWQ
VKRXOG EH XVHG ,Q DGGLWLRQ VROGHULQJ RI SWKRGV VKRXOG E
WLPHV

&ODPS FRQWDFWLQJ

3UHVXUH FRQWDFWLQJ E\ PHDQV RI FODPSV LRODUYFRDQDQIU
VZLWFKLQJ DQG KLJK WXUQ RQ SRZHU

5REXVQHV RI WHUPLQDWLRQV OHDG HG W\SHV

7KH OHDGV PHHW WKH UHTXLUHPHQWV RI (& FORVH ZKWK DQ
IURP WKH VROGHU MRLQW RQ WKH WKHUPLVWRUJHE FGDRIW IWRP
WKURXJKV 'XULQJ EHQGLQJ DQ\ PHFKDQLDQV PWWVEHDM WRXFR
EHQGLQJ UDGLXV VKRXOG EH DW OHDVV PP

7HQVLOH VWUHQJWK 7HVW 8D

/HDGV	Æ £	PP	1
	Æ £	PP	1
	Æ £	PP	1
	Æ £	PP	1
	Æ £	PP	1



7HPSHUDWXUH PHDVXUHPHQW	%	*	%	*
*ODVV HQFDSVXODWHG VHQVRUV				

%HQGLQJ VWUHQJWK 7HVW 8E
 7ZR ° EHQGV LQ RSSRVLWH GLUHFWRQV DW D ZHLJKV
 7RUVLRQDO VWUHQJWK 7HVW 8F VHYHULW\
 7KH OHDG LV E BOWDEALVWDQFH RI WR PPIURP WKH
 7KHEHQGLQJ UDGLXV RI WKH OHDGV VKRXOG EHDSSU
 °HDFK VHYHULW\
 :KHQ VXEMHFWLQJ OHDGV WR PHFKDQLFDO VWUHQGV WKH IROORZ

Tensile stress on leads

'XULQJ PRXQWLQJ DQG RSHUDWLRQ WHQVLOLQH RUFHV RQ WKH OH

Bending of leads

%HQGLQJ RI WKH OHDGV GLUHFWO\ RQ WKH WKHUPLVWRU ERG\ LV
 \$ OHDG PD\ EH EHQW DW D PLQLXP GLVWDQFH RI WZEPWKMKRZDQ
 MRLQW RQ WKH WKHUPLVWRU ERG\ 'XULQJ EHQGLQJWKH B DWUHWY
 7KHEHQGLQJ UDGLXV VKRXOG EHDW OHDVW PP

Twisting of leads

7KH WZLVWLQJ WRU DLOQDSEHQWSEHUPLVVLEOH DW PPIURP WK
 WKHUPLVWRU ERG\

6HDOLQJ DQG SRWWLQJ

:KHQ WKHUPLVWRUV DUH VHDOHG SRWWHG RU RYEGVWRUHQVGF DXXK
 E\ WKHUPDO H[SDQVLRQ GXULQJ WKH SURGXFWLRQ SQRSGXVLEQJ
 ODWHU RSHUDWLRQ 7KH XSSHU FDWHJRU\ WRWSEHUHDWUHQH RRG WQ
 WKDW WKH PDWHULDOV XVHG VHDOLQJ SROW DLUHQJFFRPPSLFXDDQ

&OHDQLQJ

,I FOHDQLQJ LV QHFHVVDU\ PLOG FOHDQLQJ D DQGLQV VDXFRDLQH
 UHFRPPHQGHG &OHDQLQJ DJHQWV EDVHG RQLZFDVHHDUQUHQPHWKO
 SHUPLVVLEOH

6WRUDJH

,Q RUGHU WR PDLQWDLQ WKHLU VROGHUDELOLWRUWRMUPH DWRUVRV
 +XPLGLW\ WHPSHUDWXUH DQG FRQWDLQHU PDWHULDOV DUH FUL
 'R QRW VWRUH 60'V ZKHU WKH\ DUH H[SRVHG WRKHVWKHSDGNUMGF
 WHULDO PD\ EH GHIRUPHG RU 60'V PD\ VWLFN WRJHWKHQJ FSDXVH
 RSHQLQJ WKH IDFWRU\ VHDOV VXFK DV SRO\YLQ\O Q BDCSRG\SDFO



7HPSHUDWXUH PHDVXUHPHQW	%	*	%	*
*ODVV HQFDSVXODWHG VHQVRUV				

&DXWLRQV DQG ZDUQLQJV *HQHUDO
 6HH ,PSRUWDQW QRWHV DW WKH HQG RI WKLV GRFXPHQW
 6WRUDJH

- 6WRUH WKHUPLVWRUV RQO\ LQ RULJLQDO SDFNDJLQJ VWRUDJH RQ RWR RSR
- 6WRUDJH FRQGLWLRQV LQ RULJLQDO SDFNDJLQJ VWRUDJH RQ RWR RSR
 KXPLGLWDOQXDO PHDQ PD[LXP GD\SHU DQQXP GHZ SU
 LQDGPLVVLEOH
- 'RQRW VWRUH WKHUPLVWRUV ZKHUH WKH\ DUHWKHSHZHGHW R\KHD
 SDFNLQJ PDWHULDOPD\EHGHIRUPHG RU FRPSRQHGWV VWRUDJH RQ RWR RSR
 PRXQWLQJ
- \$YRLG FRQWDLQDWRQ RI WKHUPLVWRUV VXUIDFH GXULQJ VWR
- \$YRLG VWRUDJH RI WKHUPLVWRUV LQ KDUPIXO HQYLUWGRPHQWV
- 8VH WKH FRPSRQHGWV DV VRRQ DV SRVVLEOHD\DIWKH RSHQLQJ W
- SRO\YLQ\O VHDHGH SDFNDJH
- 6ROGHU WKHUPLVWRUV ZLWKLQ WKH WLPH VSHFLILHG DIWHU VK
)RU OHDGHG FRPSRQHGWV WKLV LV PRQWKV IRU 60'V PRQW

+DQGOLQJ

- 17& WKHUPLVWRUV PXVW QRW EH GURSSHG &KLW RHI\RXV DQ\ RV
 GXULQJ KDQGOLQJ RI 17&V
- 'RQRW WRXFK FRPSRQHGWV ZLWK EDUH KDQGV *ORYHV DUH UH
- \$YRLG FRQWDLQDWRQ RI WKHUPLVWRUV VXUIDFH GXULQJ KDQ

%HQGLQJ WZLVWLQJ OHDGV

- \$OHDG ZLUH PD\EHHQW DW D PLQLXP GLVWISOXWRPWRZURR V
 WKH FRPSRQHGW KHDG RU KRXLQJ :KHQ EHQGLQJ LQ HQYLUWGRPH
 FRPSRQHGW KHDG RU KRXLQJ 7KH HQGLQJ PRDGLXV VKRXOGE
- 7ZLVWLQJ WRUVRLOHGHG HQWSEHUPLVVLEOH DW PPIURP WKH
 WKHUPLVWRU ERG\

6ROGHULQJ

- 8VH UHVLQ W\SH IOX[RU QRQ DFWLYDWHG IOX[
- ,QVXILFLHQW SUHKHDWLQJ PD\FDXVH FHUPLF FUDFNV
- 5DSLGRFROLQJE\GLSSLQJLQVROYHQWLVQRWUHFRPPHQGHG
- &RPSOHWHUHPRYDO RI IOX[LVUHFRPPHQGHG



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% * % *

*ODVV HQFDSVXODWHG VHQVRUV

* *

0RXQWLQJ

- (QVXUH WKDW QR WKHUPR PHFKDQLFDO VWUHV RFFXUV GXH W RYHUPROGLQJ SURFHVVHV ZKHQ WKHUPLVWRUV DUGJWBDEHG : VXEVTXHGW RSHUDWLRQ 7KH PD[LXP WHPSHUDWLRQ WKH (QVXUH WKDW WKH PDWHULDORV XVHG VHDOLHULSDORWDLQFRFRPS QHXWUDO
- (OHFWURGHV FRQWDFWV PXVW QRW EH VFUDWKFRXQWGLDQDJH SURFHVV
- &RQWDFWV DQG KRXLVQJ XVHG IRU DVVHPEO\ ZLWKHUPRQVWHQJ
- (QVXUH WKDW DGMDFHQW PDWHULDORV DUH GHFRQWDLQDEOH SRUW VXUIDFH WHPSHUDWXUH RI WKH WKHUPLVWRU %HWRXUHQWV ZLWKVWDQG WKH WHPSHUDWXUH
- \$YRLG FRQWDLQDWRQ RI WKH WKHUPLVWRU VXUIDFH GXULQJ
- 7KH FRQHFWRQV RI VHQVRUV H J FDEOH HQG\ ZHUHQSHQGHG DQ HQYLURQPHQW ZLWK QRUPDO DWPRVSKHULF FRQLGLWRQV
- 7HQVLOH IRUFHV RQ FDEOHV RU OHDGV PXVW EH DWRRGHG GXUL
- %HQGLQJ RU WZLVWLQJ RI FDEOHV RU OHDGV QRLW SFWDLRQLVWH
- \$YRLG XLVQJ FKHPLFDO VXEVDQFHV DV PRXQWLQJHULSV R, WKH OLTXLGV HQWHU WKH 17 & WKHUPLVWRUV HFXODKFRZDKHSOEDWH VXEVDQFHV H J VRDS VXGV PXVW QRW EH XVHG DV PRXQWLQ

2SHUDWLRQ

- 8VH WKHUPLVWRUV RQ\ ZLWKLQ WKH VSHFLILHG RSHUDWLQJ W
- 8VH WKHUPLVWRUV RQ\ ZLWKLQ WKH VSHFLILHG SRZHU UDQJH
- (QYLURQPHQWDO FRQLGLWRQV PXVW QRW KDUP WKH WKHUPLVWRU QRUPDO DWPRVSKHULF FRQLGLWRQV RU ZLWKLQ WKH VSHFLILH
- &RQWDFW RI 17 & WKHUPLVWRUV ZLWK DQ\ OLRWLVG DWEXRREHG HQVXUHG WKDW QR ZDWHU HQWHUV WKH 17 & WKHUPLVWRUV H J PHDVXUHPHQW SXUSRVHV FKHFNLQJ WKH VSHFLILHG HQWLVWD PXVW QRW EH LPPHUVHG LQ ZDWHU EXW LQ VXLWDEOH OLTXLGV
- \$YRLG GHZLQJ DQG FRQGHQVDWRQ XQOHVV WKH WPRQWRU LV V
- %HQGLQJ RU WZLVWLQJ RI FDEOHV DQG RUHQWLVWRQ RIRWKSHPQ WKH DSSOLFDFWRQ
- %H VXUH WR SURYLGH DQ DSSURSULDWH IDLO VDWXGDFDFWRQ W FDXVHG E\ PDOIXQFWLRQ

7KLV OLVWLQJ GRHV QRW FODLP WR EH FRPSDHHQFH EKMSZHO\ U



7HPSHUDWXUH PHDVXUHPHQW

% * % *

*ODVV HQFDSVXODWHG VHQVRUV

* *

6\PEROV DQG WHUPV

6\PERO	(QJOLVK	*HUPDQ
\$	\$UHD)OIFKH
\$: *	\$PHULFDQ :LUH *DXJH	\$PHULNDQLVFKH 1RUP I•U 'UDKW
%	% YDOXH	% :HUW
%	% YDOXH GHWHUPLQH G E PHDVXUHPHQW ° &	% HVLVWDQFH GHWHUPLQH G E PHDVXUHPHQW ° &
&WK	+HDW FDSDFLWDQFH	:IUPHNDSD]LWIW
,	&XUUHQW	6WURP
1	1XPEHU LQWHJHU	\$Q]DKO JDQ]DKOLJHU :HUW
3	0D[LPXP SRZHU & DW	0D[LPDOH /HLVWXQJ EHL
3 _{GLVV}	3RZHU GLVVLSDWLRQ	9HUOXVWOHLVWXQJ
3 _{HO}	(OHFWULFDO SRZHU	(OHNVULVFKH /HLVWXQJ
3 _{PD}	0D[LPXP SRZHU ZLWKLQ WHPSHUDWXUH UDQJH	0D[LPDOH /HLVWXQJ LP DQJHJHEHQHQ7HPSHUDWXUEHU
D5% 5%	5HVLVWDQFH WROHUDQFH VSUHDG RI % YDOXH	5HVLVWDQFH WROHUDQFH GLH G 6WUHXXQJ GHV % :HUWHV YHUX
5 _{LQV}	,QVXODWLRQ UHVLVWDQFH	,QVXODWLRQVZLGHUVWDQG
5 ₃	3DUDOOHO UHVLVWDQFH	3DUDOOHOZLGHUVWDQG
5 ₅	5DWHG UHVLVWDQFH	1HQZLGHUVWDQG
D5 ₅ 5 ₆	5HVLVWDQFH WROHUDQFH	5HVLVWDQFH WROHUDQFH
5 ₆	6HULHV UHVLVWDQFH	6HULHQZLGHUVWDQG
5 ₇	5HVLVWDQFH DW WHPSHUDWXUH H J 5UHVLVWDQFH DW	5HVLVWDQFH DW WHPSHUDWXUH H J 5UHVLVWDQFH DW
7	7HPSHUDWXUH	7HPSHUDWXUH
D7	7HPSHUDWXUH WROHUDQFH	7HPSHUDWXUWROHUDQFH
W	7LPH	=HLW
7 _{\$}	\$PELHQW WHPSHUDWXUH	8PJHEXQJVWHPSHUDWXUH
7 _{PD}	8SSHU FDWHJRU\ WHPSHUDWXUH	8SSHU FDWHJRU\ WHPSHUDWXUH
7 _{PLQ}	/RZHU FDWHJRU\ WHPSHUDWXUH	/RZHU FDWHJRU\ WHPSHUDWXUH
7 _{RS}	2SHUDWLQJ WHPSHUDWXUH	2SHUDWLQJ WHPSHUDWXUH
7 ₅	5DWHG WHPSHUDWXUH	1HQQWHPSHUDWXUH
7 _{VXUI}	6XUIDFH WHPSHUDWXUH	2EHUIOIFKHQWHPSHUDWXUH
9	9ROWDJH	6SDQQXQJ
9 _{LQV}	,QVXODWLRQ WHVW YROWDJH	,QVXODWLRQV SU•IVSDQQXQJ
9 _{RS}	2SHUDWLQJ YROWDJH	%HWULHEVSDQQXQJ
9 _{WHV}	7HVW YROWDJH	3U•IVSDQQXQJ



7HPSHUDWXUH PHDVXUHPHQW % * % *
 *ODVV HQFDSVXODWHG VHQVRUV * *

6\PERO	(QJOLVK	*HUPDQ
a	7HPSHUDWXUH FRHIILFL	7HPSHUDWXUNRHIIL]LHQW
D	7ROHUDQFH FKHQJH	7ROHUDQ] bQGHUXQJ
d _{wk}	'LVVLSDWLRQ IDFWRU	:IUPHOHLWZHUW
t _F	7KHUPDO FRROLQJ WLP	7KHUPDOFWH \$EN•KO]HLWNRQVV
t _D	7KHUPDO WLPH FRQVWD	7KHUPLVFKH =HLWNRQVWDQWH

\$EEUHYLDWLRQV 1RWHV

6\PERO	(QJOLVK	*HUPDQ
SMD	6XUIDFH PRXQWHG GHY	6XUIDFHPRXQWHG GHY =DKO LP %HVV
	7REHUHSODFHGE\ DQX	7REHUHSODFHGE\ DQX =DKO LP %HVV
	FRGHV W\SH GHVLJQDW	FRGHV W\SH GHVLJQDW =DKO LP %HVV
	7REHUHSODFHGE\ DQH	7REHUHSODFHGE\ DQH =DKO LP %HVV
	\$OOGPHQVLRQV DUH JL	\$OOGPHQVLRQV DUH JL =DKO LP %HVV
	7KHFRPPDV XVHG LQ QX	7KHFRPPDV XVHG LQ QX =DKO LP %HVV
	GHQRWH GHFLPDO SRLQ	GHQRWH GHFLPDO SRLQ =DKO LP %HVV



,PSRUWDQW QRWHV

7KH IROORZLQJ DSSOLHV WR DOO SURGXFWV QDPHG LQ WKLV SXEOLFDWLRQ VXLWDELOL

6RPH SDUWV RI WKLV SXEOLFDWLRQ VXLWDELOL FHUWDLQ DUHDV RITKSHOHLF WDWWRPHQWV DUH EDVHG RQ RXU N

TXLUHPHQWV WKDW DUH RIWHQ SODFHG RQFDXUL & QRFORFFHWV QG

QHYHUWKHOHV H[SUWKDWO VSRKQW BWWPHQWV FDQQRW EH U

VWDWHPHQWV DERXW WKH VXLWDELOLW\ RI RPHUS DSSOLFDWLR

\$V D UXOH (3&26 LV HLWKHU XQIDPLOLDU ZLWK RQVROLOYHG XDDP

ZLWK WKHP WKDQ WKH FXVWRPHUV WKHPVHOYHVLP D\WH QAKHQ/FX

EHQW RQ WKH FXVWRPHU WR FKHFN DQG GHFLGH ZUKRSHKUHMLHQ/

VFULEHG LQ WKH SURGXFW VSHFLILFDWLRQR\PHXKD\SDGEOFDIVRUR

:H DOVR SRLQW RQVXQVWKDQ DO FDVHV D PDOIXQFWLRQ RI HOH

IDLOXUH EHIRUH WKH HQG RI WKHLU XVXDO WHOYUXHO DGIRFXDQ

FXUUHQW VWDWH RI WKH DUW HYHQ LI WKH IDUHWRS PHUDDVSD

UHTXLULQJ D YHU\ KLJK OHYHO RI RSHUDWLRQ IDODSSOHLF DQDQ

ZKLFK WKH PDOIXQFWLRQ RU IDLOXUH RI DQ QOHUF\XUFRQD IDIR

KHDOWK H J LQ DFFLGHQW SUHYHQWLRQ RU OIHHQD\XLUJGVEV

PHDQV RI VXLWDEOH GHVLJQ RI WKH FXVWRPHUDES\VOK FDFXV RV

H J LQVWDOODWLRQ RI SURWHFWLYH FLWFGD\PHUHRUUVXQVWODL

WKLUG SDUWLHV LQ WKH HYHQW RI PDOIXQFWLRQ RU IDLOXUH F

7KH ZDUQLQJV FDXWLRQV DQG SURGXFW VSHFLILF QRWHV PXV

,Q RUGHU WR VDWLVI\ FHUWDLQRPHFRQVLEKBSURGXEXWHPHQWVU

SXEOLFDWLRQ PD\ FRQWDLQ VXEVDQFHV WDEQIMFXW WFGUFWWR

EHFDXVH WKH\ DUH FODVVHGSDVXQD\IDUWRXQWLRQ RQ WKLV ZLO

WHULDO 'DWD 6KHHWV RQ WKH ,QWHUQHW ZZZYHS DQVFRUPHQD

WDLOHG TXHVWLRQV SOHDVH FRQWDFW RXU VDOHV RIILFHV

:H FRQVWDQWO\ VWULYH WR LPSURYHWKXUS SURGXFWV G&RQMLH

SXEOLFDWLRQ PD\ FDKDQH IURPHWDPHHWR WWRH RI WKH FRUUV

VSHFLILFDWLRQV 3OHDVH FKHFN WKHUHIRUH QGZSDFLH\FDHW

FRQWDLQHG LQ WKLV SXEOLFDWLRQ DUHXS\ODFOH DSSOLHGDHGH

UHVHUYH WKH ULJKW WR GLVFRQLQXHSUXFQ\XRV\H\QXQDQGH

FDQQRW JXDUDQWHH WKDW DOO SURGXFWV DQVPEHG DLYD WQD FQ

DIRUHPHQWLRQHG GRHV QRW DSSO\ LQ WKH\ FDDWLRQ J LQRLPY WQ

JRLQJ IRU FXVWRPHU VSHFLILF SURGXFWV

8QOHVV RWKHUZLVH DJUHHG DOO QRGHGXDOHFRQWUDFWV WR V

VLRQ RI WKH *HQHUDO 7HUPV RI 'HOLYHU\ IRU\XUHRQXIFWU DQD

GXVWU\ SXEOLVKHG E\ WKH *HUPDQ (OHFWULFDQV BQIGD WQHR

=9(,

7KH WUDGH QDPHV (3&26 %\$2.(\$OX ; &HUD'LRGH &603

0LQL%OXH 0.. 0/6& 0RWRU&DS 3&& 3KDVH&DS 3KDVH&XE

6,.) 6,.25(/ 6LOYHU&DS 6,0'\$' 6,0,' 6LQH)RUPHU 6,29 6,3'

:LQG&DSVWDPHGHPDUNV UHJLVWHLQHQ\URSSHQDQGLQ RWKHU FRX

LQIRUPDWLRQ ZLOO EH IRXQG RQ WKH ,QWHUQHW DW ZZZ HSRF