¸F&

PT4515 e 6!tQ 2ô Ü 4õ] LED P§ Þ8å(} ¸ Gý+^‹ !ë E ì º ¸ "× ? EMI ,ºL$NÎ >315 L * M6+k U L Á ž1•.÷] y , ¸ ª `315 5 º1¶ ‹ ¸ F b „ >

PT4515 Gý+^ I _,º+k#w Ý I D›› µ ¶ e ¸+k#w2ô Ü % Ý I ^ ±3% » ¸ %+g LG +kLqAô Ð ¸ & r+k#w 60mA > % P8å(} ¬6Š µ+^ Ô Ö+k#wŒÉ 073 Ñ>

PT4515 »5¤Eý$_ Q Á8 ÞLƒ+k#wÕ73¸Eý$_ Ú Õ73>

PT4515 Gý+^TO252-2L = SOT89-3L 7>û >

(¯&ï

- L *+kD%1¶ ‹ ¸ M6 .÷] y ,
- »G Lü F Q Á e Þ+kD%
- LED EÉ 0+k#w %B9 ¸ e 7 6] & r+k#w 60mA
- e 7 P8å(} ¬6Š Ô Ö+k#w EÉ 073 Ñ
- ±3%LED EÉ 0+k#w2ô Ü
- N 8,º EMI]73
- Eý$_8 ÞB98¸+k#w Õ73
- Q Á8 Þ B98¸+k#w Õ73
- Eý$_ Ú Õ73
- Gý+^TO252-2L = SOT89-3L 7>û

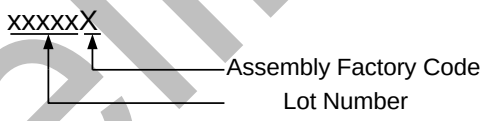
Ê+^

- LED =W' &¥
- LED *9# &¥/ :&¥
- ¬ 3] Á LED'• D Ý ÷

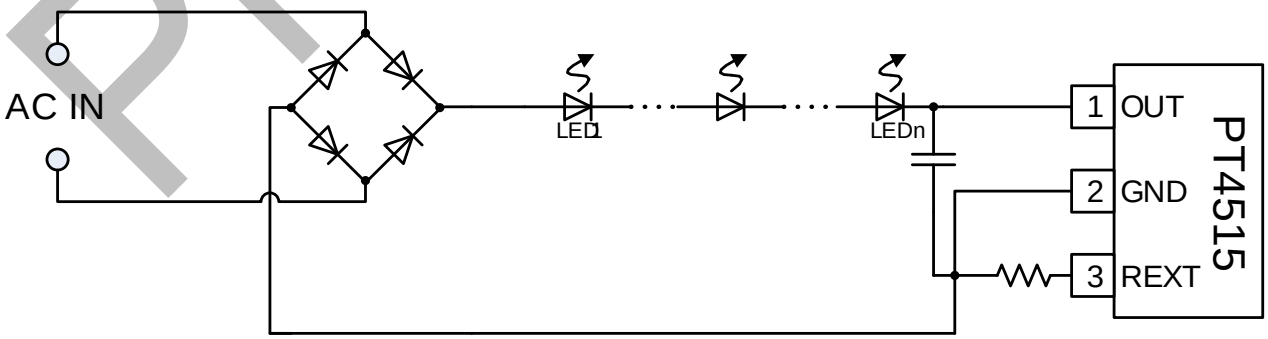
AØCc ¥

7>û	$_ Ü99 *	AØCc Á -	;>û ‰ ¦	Ý ÷ ‰ ¦
TO252-2L	-40 Ûƒ to 85 Ûƒ	PT4515ETOW		PT4515 XXXXXX
SOT89-3L	-40 Ûƒ to 85 Ûƒ	PT4515E89C		PT4515 XXXXXX

Note:

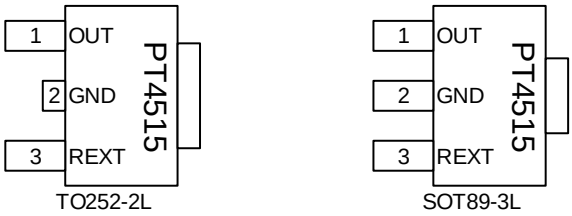


® Á Ê+^+kD%



4 1. PT4515 ® Á Ê+^+kD% 4

1×7P



4 2. PT4515 1×7P Đ • 4

1×7P F&

K7P -.7	K7P C0&	K7P Õ73 F&
1	OUT	ˆ#wEÉ 01%
2	GND	8å(} f
3	REXT	EÉ 0+k#wAô5¤1%

·L† ø ¦ (# 1)

1\ -	ø ¦	ø ¦99 *	‹ ƒ
JA ´ TO252-2L µ	PN 5 f}å ¹'#Lq ´# 2 µ	37	℃/W
JA ´ SOT89-3L µ	PN 5 f}å ¹'#Lq ´# 2 µ	100	℃/W
T_J	'5 $_99 *	-40~150	℃
T_{STG}	Ž Þ$_ Ü99 *	-65~150	℃
ESD	ð ‰ W E ´# 3 µ	2	KV

1 Æ6] ·L† r e =C» 0B '99 * ¸8å(} ? %73 • … > Þ9† '99 * e = ^B 99 * » ¸ ž , Õ73!™ n ¸ | ¬ C Â ž A÷% Cé ` a ]73 = = >+k"J ø ¦ Đ • ¼ ž , ^ '99 * » ¬ J ^ A÷(¯ Đ ]73 = =,º#•B — , A,º-*#w Â Ú#w+k ø ¦ ?ú99 > / Ä `5 Đ @ A L† r,º ø ¦ ¸B ?ú99 C ¾ A÷ ¬2ô Ü ¸ | ¬ ® Á r >*< V ¼ ž ,]73 >

2 ÆPCB — , Æ M˜ µ ¸K 1Ê Đ Ü 2Oz ¸K0K M˜0%2Inch² ¸F Û 8 `Eý Š >

3 Æð ‰ W Á ¸ 100pF +k ïFPEý . +kLq t+k

Þ9† '99 *

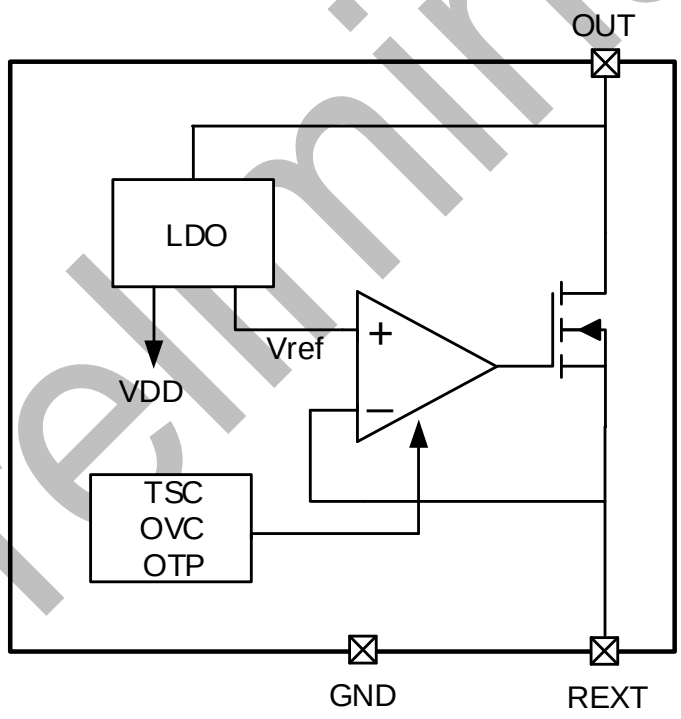
1\ -	ø ¦	ø ¦99 *	‹ ƒ
I_{LED}	EÉ ›+k Á 220Vac	<60	mA

+k"J ø ¦

((¯ aB* D ¸ T_A=25 Ûº)

1\ -	F&	— ,	6 E r	® Á r	6] r	‹ *f*
V_{OUT_MIN}	OUTEÉ › 6 „+k Á	I_{OUT} = 30mA			6.5	V
V_{OUT_BV}	OUT1% 6F Á	I_{OUT} = 0	450			V
I_{DD}	M• 7+k#w	V_{OUT} = 10V ¸ REXT â0°		80	250	$
I_{OUT}	EÉ 0+k#w		5		60	mA
V_{REXT}	REXT1% +k Á	V_{OUT} = 10V	485	500	515	mV
dI_{OUT}	I_{OUT}2ô Ü	I_{OUT} = 20mA		±3		%
T_{SC}	+k#wŒU$_ Ü>› µC- &ï		135	140	145	
T_{OTP}	Eý$_ Ú&ï			165		
T_{OTP_HYS}	Eý$_ ÚF %			20		
V_{OVC}	OUTQ ÁL*f*+k#wC- &ï			70		V
dV_{OVC}	Q ÁL*f*+k#w31 ¦	V_{OUT} = 70 150V		0.8		%/V

1¶ L W • 4



4 3. PT4515 »G W •1¶ L 4

Õ73 F&

PT4515 e 6!tQ 2ô Ü4õ] LED P§ Þ8å(} Ģý+^ ‹ !ë E4õ] ì º ¸ ¬ J"× ? EMI ,ºL$NÎ >315 L * M6+k U L Á ž1•.÷] y , ¸ ª `315 5 º1¶ ‹ ¸ F b „ >

e Þ+k Á (OUT)

PT4515 '+k Á+g OUT K7P Ñ > ‰ OUT K7P +k ÁQ Ä GND 8) 8å(} 6 e+k Á , ¸ PT4515 6 ' ¸ Ô)æ ˆ#w Ý I >

ˆ#wP§ Þ ´ OUT ¸ R_{EXT} **µ**

8å(} % FPEýR$_{EXT}$+kLq2ô.¤Aô ÐLEDEÉ 0+k#w >

$$I_{LED} = \frac{500mV}{R_{EXT}(\Omega)}(mA)$$

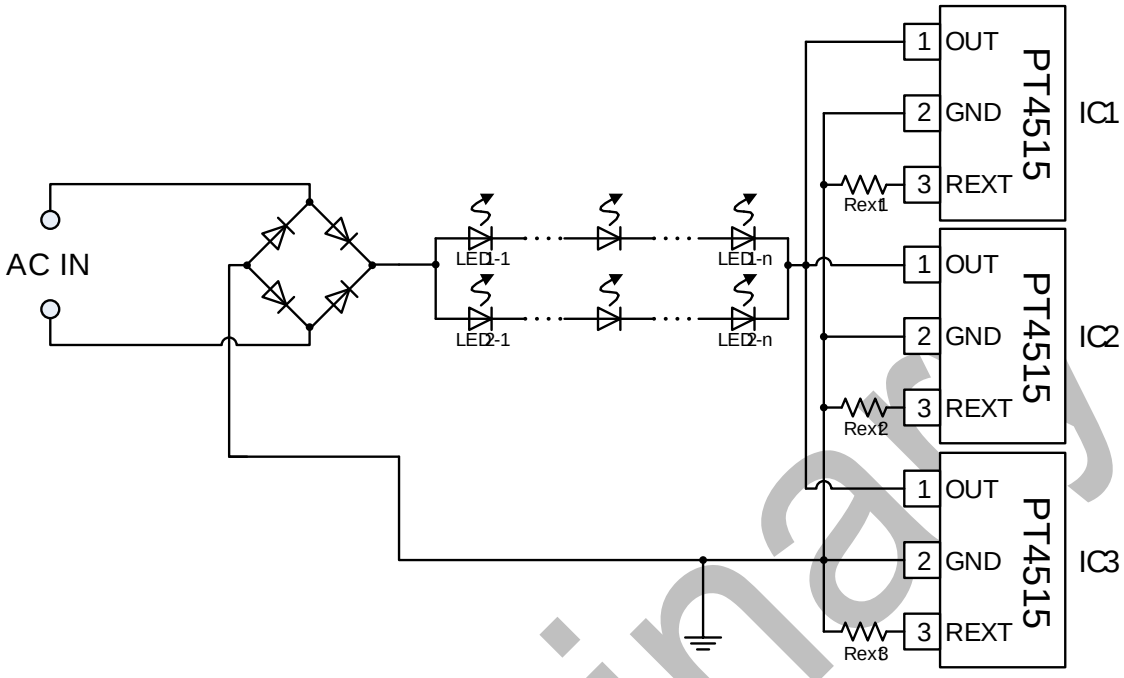
Eý'#B98¸ Õ73

PT4515 - ? Eý '# B9 8¸ Õ 73 ¸ ^ 8å (} Eý '# , ´ >140℃ µ PFF$F EEÉ 0+k#w ¸ 6B Ý lEÉ 0 Õ)½ Â $_ } ¸ µ8å(}$_ Ü 7 ^ ˆ Ð r ¸ Q 315 ,º %M–] > Eý'#Lƒ+k#w ,EÉ 0+k#w 6 P G fAô ÐEÉ 0+k#w,º < • 6 >315 P C ã ö#•8å(}$_ Ü ¸‰8å(}$_ ÜLƒ f 140℃ A , ¸315 +k#w˜ C!™ n > ‰8å(}$_ ÜC»Eý165 , 8å(} © ãEÉ 0 >315 P C ã ö#•8å(}$_ Ü ¸ ‰8å(}$_ Ü Lƒ f 145 A , ¸315 ƒ73H æ ˜ C!™ n ' >

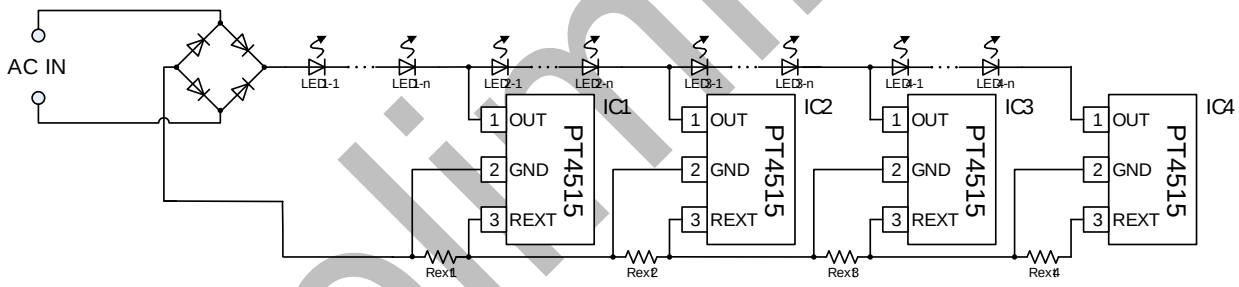
Q ÁLƒ+k#w Õ73

PT4515 - ? Q ÁLƒ+k#w Õ73 ¸ ^8å(} OUT K7P+k ÁEýQ , ´ >70V µ PFF$F EEÉ 0+k#w ¸ µEÉ 0 Õ)½ 7 ^F r ˆ Ð r ¸ Q 315 ,º0i Ð] > Q ÁLƒ+k#w , EÉ 0+k#w 6 P G fAô ÐEÉ 0+k#w,º ? < • 6 >315 P C ã ö#• OUT K7P+k Á‰ OUT K7P+k ÁLƒ f 70V A , ¸315 +k#w˜ C!™ n >

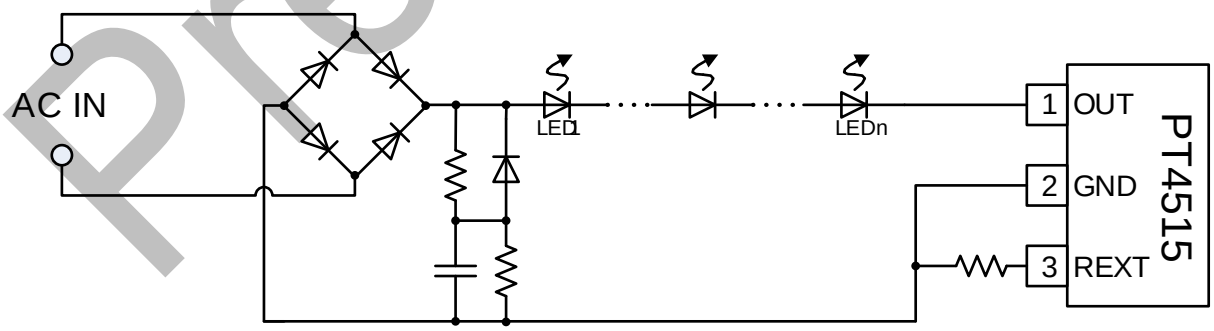
Ê+^ ~ Á



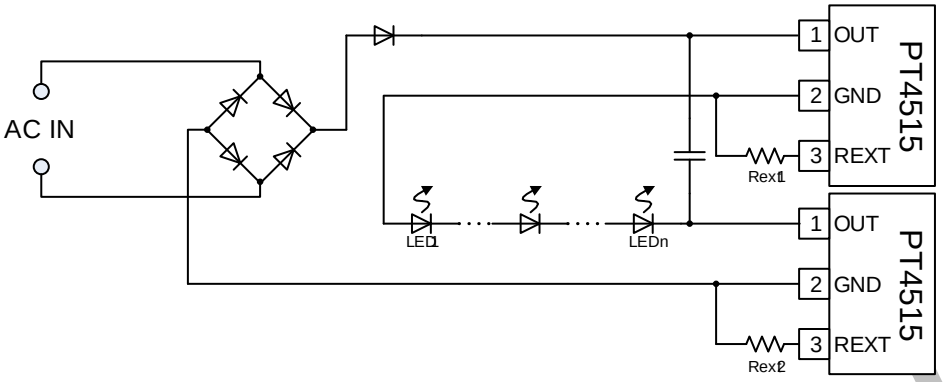
4 4. PT4515 ¬6Š Ê+^+kD% Õ*< 4



4 5. PT4515 h6Š Ê+^+kD% Õ*< 4



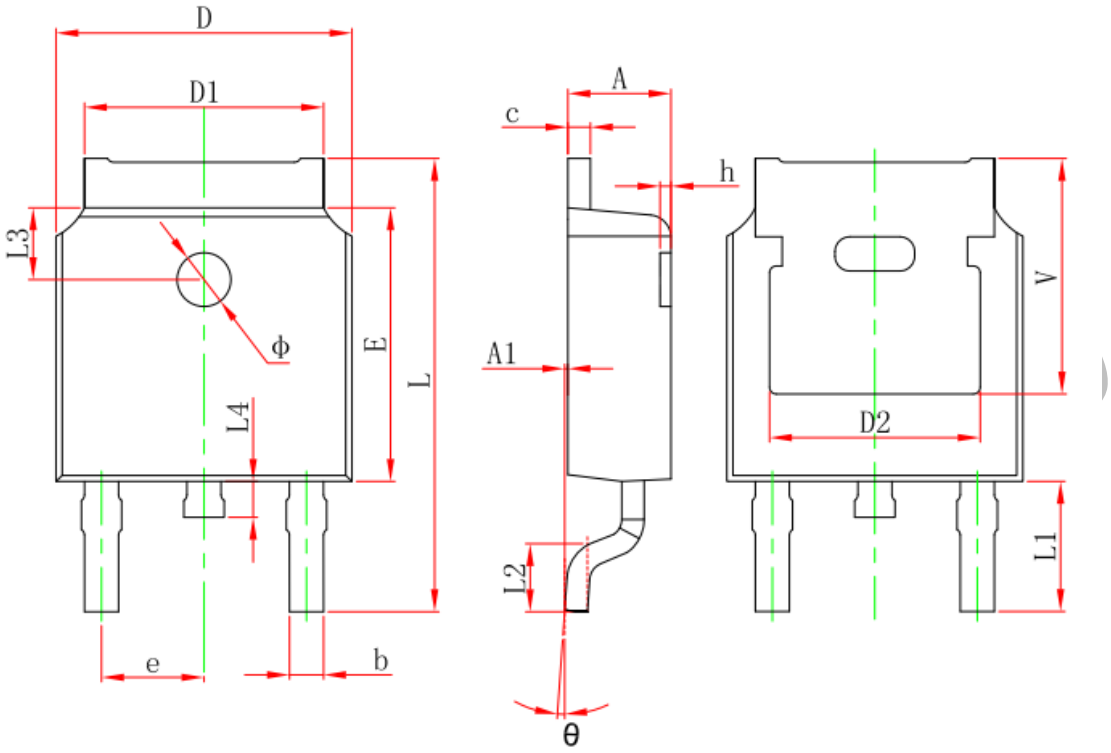
4 6. PT4515 ¡Bm+kD% Ê+^+kD% Õ*<14



4 7. PT4515 ¡Bm+kD% Ê+^+kD% Õ*<24

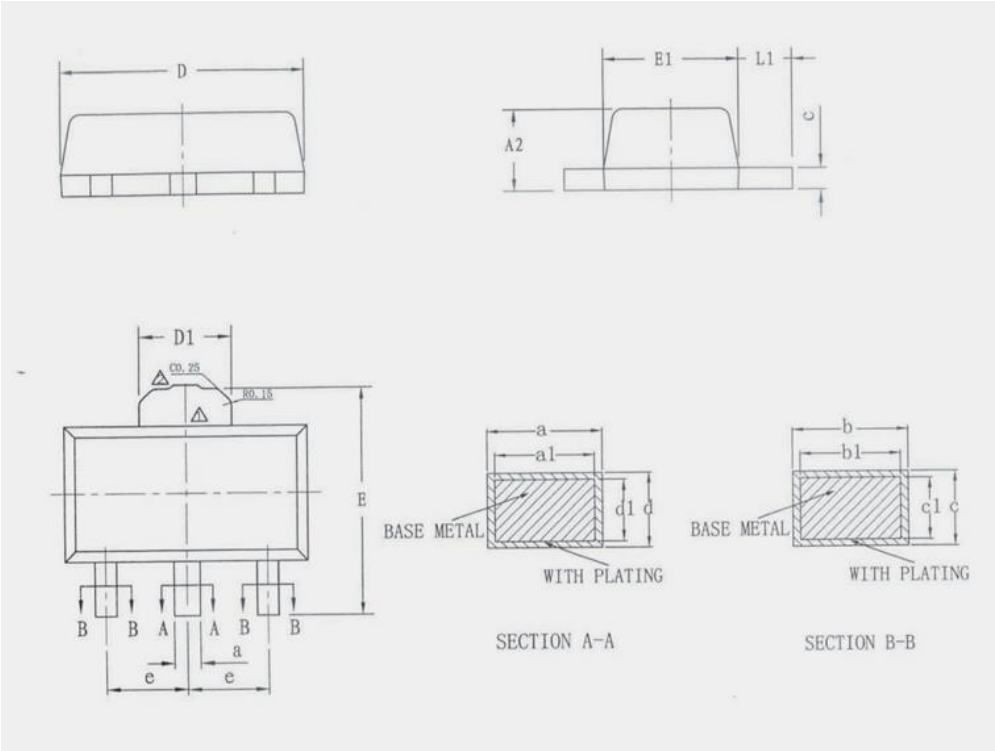
7>û ¥

TO252-2L



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.700	4.920	0.185	0.194
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900REF		0.114REF	
L2	1.400	1.700	0.055	0.067
L3	1.700	1.900	0.067	0.075
L4	0.600	1.000	0.024	0.039
	0°	8°	0°	8°
h	0.000	0.300	0.000	0.012
V	5.300REF		0.209REF	

SOT89-3L



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A2	1.400	1.600	0.055	0.063
b	0.380	0.470	0.015	0.019
b1	0.370	0.430	0.015	0.017
c	0.360	0.460	0.014	0.018
c1	0.350	0.410	0.014	0.016
a	0.460	0.560	0.018	0.022
a1	0.450	0.510	0.018	0.020
d	0.360	0.460	0.014	0.018
d1	0.350	0.410	0.014	0.016
D	4.300	4.700	0.169	0.185
D1	1.700REF		0.067REF	
E	4.000	4.400	0.157	0.173
E1	2.300	2.700	0.091	0.106
e	1.500BSC		0.059BSC	
L1	0.800	1.200	0.031	0.047

H ?· & D

„#Ü.3 7 (POWTECH) ? y / v Ñ,º Ý ÷ Â C ×F >, *!™ = $ o = Ô p = oF L ¬ ¹ * o ¸ ¬ ? y c!˜ Ñ 1 ‹ Ý ÷ Â C × > Ø m ^ AAØ ‹ ƒ Ê9í 6 æ,º-. © ¥ , ¬PÂA÷F Ñ ¥ e \ Â ª J e 6 æ,º > v ? Ý ÷,ºK6 dG3F« à ^AØ ‹.¤AÚ , v Ñ,º „#Ü.3 7K6 d —!t D — , >

„#Ü.3 7 A÷ ¬ vK6 d,º Ý ÷,º]731\ > Ý ÷K6 d , € 2 ‰ Ý ÷K6 d — , D —!t,ºF8+^?ú99 > û ^ „#Ü.3 7 A÷,º99 * » ¸ J „#Ü .3 7AÚ p ? û?· , ƒ P µ+^#•B L ¬ ¹C^H Ý I ¶ e >LšM”F8+^# Á • 0 ¼.¢]?ú Ð ¸ \ O"× ? û?· /" 0 Ý ÷,º v ? ø ¦F >,#•B >

„#Ü.3 7 / Ê+^ d ß L Ø m Ý ÷AôA× C µ û 1 ‹ • × > Ø m Ê / ¬ µ+^ „#Ü.3 7,º Ý ÷ Â Ê+^8 >,CUCY > p sH E D Ø m Ý ÷ Â Ê+^-. ©,ºO LŸ ¸ Ø m Ê Ñ { <,ºAôA× D ' ¿ ž à ó >

„#Ü.3 7 Ý ÷ `9í Í+^ Ä FDA Class III ´ L2± r,º+U ³ n © q+ÍAô = µ,º ¾ yAî % ¸LšM” : ï ¾ y Î Ž (5 Eô F ¼ IL 1× Ý!š2± µ +^,º(¯ a …Aä >

?FÙ Ñ „#Ü.3 7(¯ a# D ” Ä Ñ+^1•4Ý L ³Ô p Á ‡ Ï ´,º „#Ü.3 7 Ý ÷ ƒ eAôA× L IL +^ Ä Ñ Á /8`0° Ê+^ L)å ¹,º >Cc ¦6;AÚ % ¬ B E ¸ / ¬M” = ÐM˜ G Ñ Á L8`0°8` _+^FJ,º „#Ü.3 7 Ý ÷F >, Ñ Á L8`0°8` _ ïM˜,º Ê+^ ¸ ¬O LŸ+g Ø m ‹)" µ û ¸ ¬ J+g Ø m)" ÑCUCY% Cé D!š2± µ+^-. ©,º v ?# Á Â# ?ú?·"x >

„#Ü.3 7 ` D.¤ = Ð1\ > ISO/TS16949 ?·"x,º Ý ÷ C73 Ê+^ Ä"³Eœ > ^ 1 ‹ û ë A ¸ µ+^M” = Ð Ý ÷6B # Eô f ISO/TS16949 ?·"x ¸ „#Ü.3 7 C µ û 1 ‹CY 1 >