

UNCONTROLLED DOCUMENT

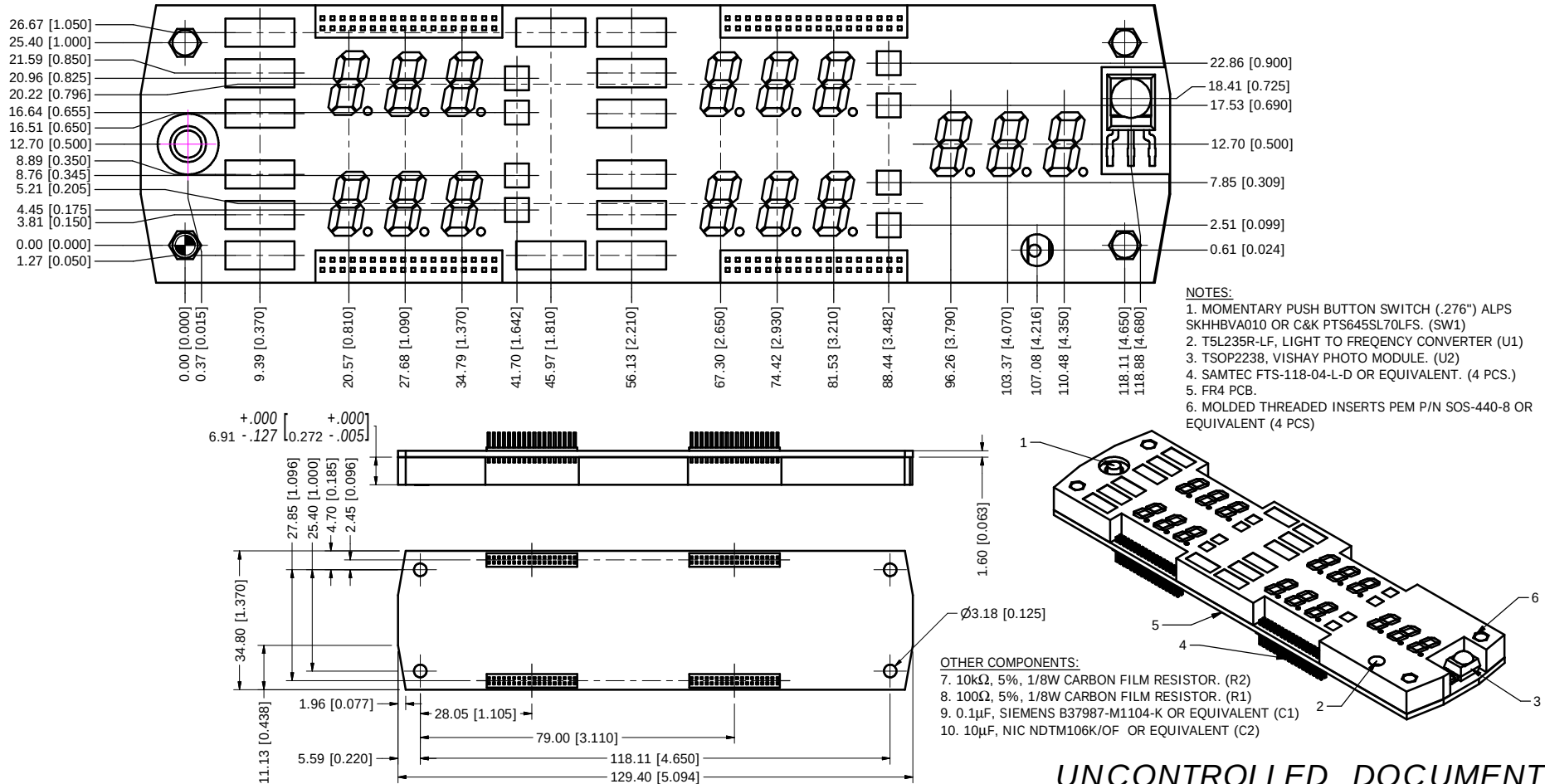
SC:1

PART NUMBER

LDT - 2R39023RI

REV.

PRELIMINARY IN P/N DIR



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X="1" (°0.039), X.X="0.5" (°0.020), X.XX="0.25" (°0.010), X.XXX="0.127" (°0.005). LEAD SIZE="0.05" (°0.002), LEAD LENGTH="0.75" (°0.030), MIN="0.00" (°0.000), MAX="0.00" (°0.000).

REV.

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LDT - 2R39023RI

CUSTOM LED DISPLAY MODULE ASSEMBLY,
FIFTEEN 7-SEGMENT DIGITS & WINDOWS,
BLACK FACE W/WHITE SEGMENTS.

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

LUMEX
Creating LED and LCD Solutions Together™

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JN

CHECKED BY:

APPROVED BY:

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PAGE: 1 OF 4

SCALE: N/A

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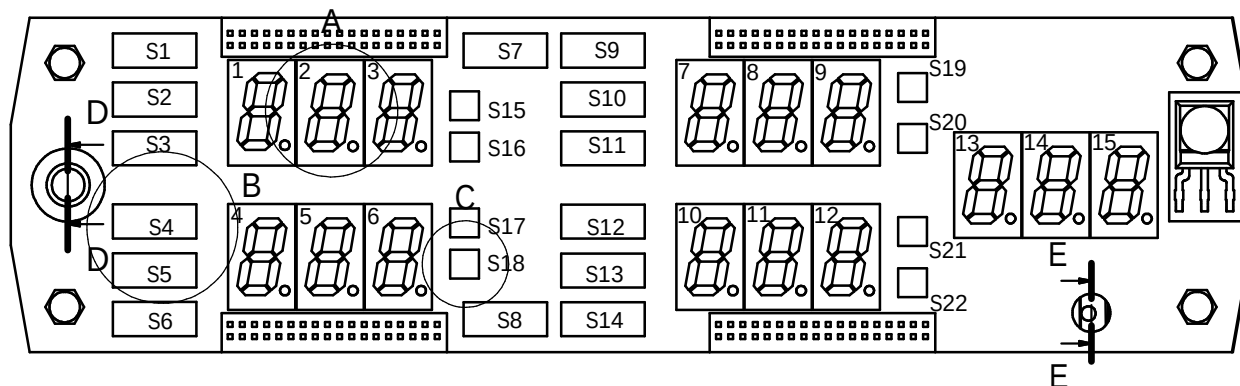
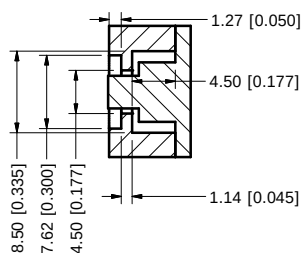
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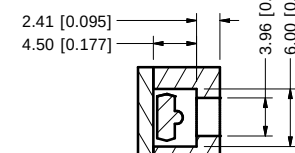
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D-D (2)



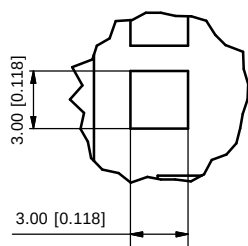
E-E (2)



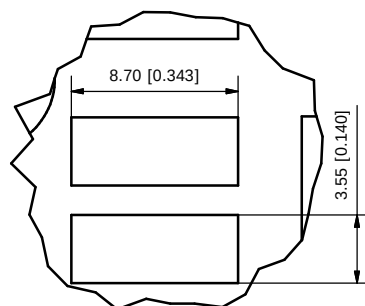
NOTES:

1. S1-S22, DIGITS 7-12, 4 ELEMENT RED.
2. DIGITS 1-6, 4 ELEMENT YELLOW.
3. DIGITS 13-15, 4 ELEMENT GREEN.

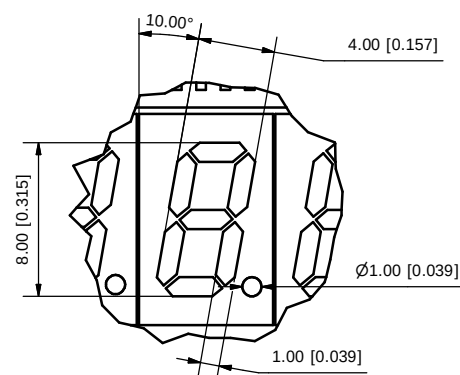
C (4 : 1)



B (4 : 1)



A (4 : 1)



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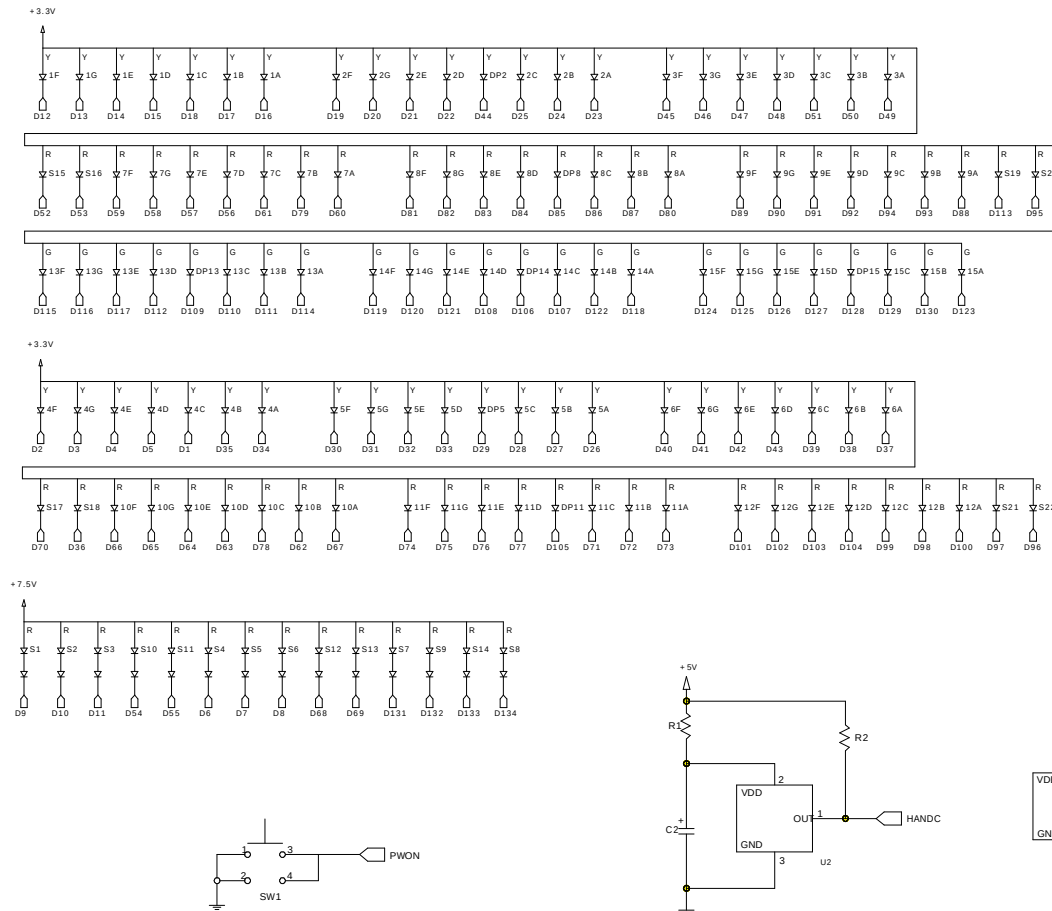
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ELECTRICAL / OPTICAL CHARACTERISTICS RATING				Ta = 25° C				
ITEM	SYMBOL	TEST CONDITION	COLOR	LOCATION	RATING			UNITS
					MIN	TYP.	MAX	
FORWARD VOLTAGE	Vf	If = 20mA	GREEN	PER DICE	-	2.00	2.60	V
			YELLOW	PER DICE	-	2.00	2.60	
			RED	PER DICE	-	1.80	2.40	
LUMINOUS INTENSITY	Iv	If = 10mA	GREEN	PER DICE	-	30000	-	ucd
			YELLOW	PER DICE	-	30000	-	
			RED	PER DICE	-	30000	-	
WAVELENGTH	λD	If = 20mA	GREEN	PER DICE	-	570	-	nm
			YELLOW	PER DICE	-	589	-	
			RED	PER DICE	-	630	-	
SPECTRAL LINE HALF WIDTH	Δλ	If = 20mA	GREEN	PER DICE	-	20	-	nm
			YELLOW	PER DICE	-	20	-	
			RED	PER DICE	-	20	-	

LUMINOUS INTENSITY SORTING			TOLERANCE: + / - 10%		
RANK	SYMBOL	CONDITION	MIN	MAX	UNIT
M	M	IF=10mA	12650.1	20000	μcd
N	N	IF=10mA	20000.1	32000	μcd
O	O	IF=10mA	32000.1	51200	μcd

ABSOLUTE MAXIMUM RATING				Ta=25°C	
ITEM	SYMBOL	CONDITION	COLOR	RATING	UNITS
FORWARD CURRENT PER DICE	If		GREEN	25	mA
			YELLOW	25	
			RED	25	
DERATING OFF IF PER DICE	ΔIf	Ta≥25°C	GREEN		mA/°C
			YELLOW	0.33	
			RED		
PEAK FORWARD CURRENT PER DICE	Ifp	1/10 DUTY WITH 1 kHz	GREEN		mA
			YELLOW	90	
			RED		
REVERSE VOLTAGE PER DICE	Vr	-	GREEN		V
			YELLOW	5	
			RED		
OPERATING TEMPERATURE RANGE	Topr	-	-	-35~+85	°C
STORAGE TEMPERATURE RANGE	Tsgt	-	-	-35~+85	°C

GREEN HUE GRADE		If=10mA (HUE: + / - 1nm)	
RANK	SYMBOL	WAVELENGTH	UNITS
2	2	567.0~569.0	nm
3	3	569.1~571.0	nm
4	4	571.1~572.0	nm

RED HUE GRADE		If=10mA (HUE: + / - 1nm)	
RANK	SYMBOL	WAVELENGTH	UNITS
22	22	626.1~629.0	nm
23	23	629.1~632.0	nm
24	24	632.1~635.0	nm

YELLOW HUE GRADE		If=10mA (HUE: + / - 1nm)	
RANK	SYMBOL	WAVELENGTH	UNITS
7	7	587.1~588.0	nm
8	8	588.1~589.0	nm
9	9	589.1~590.0	nm
10	10	590.1~591.0	nm

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