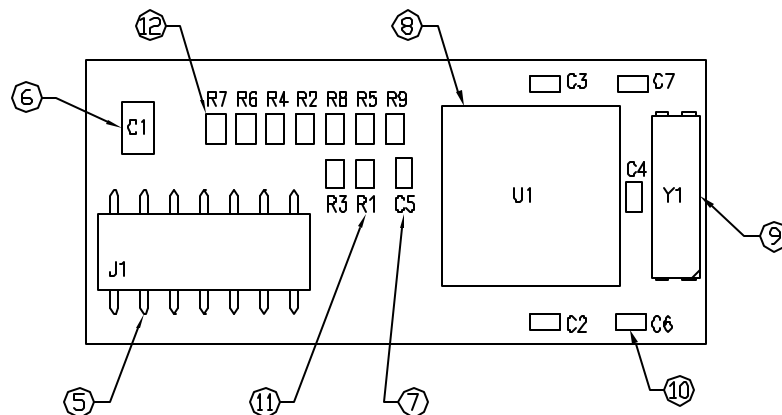
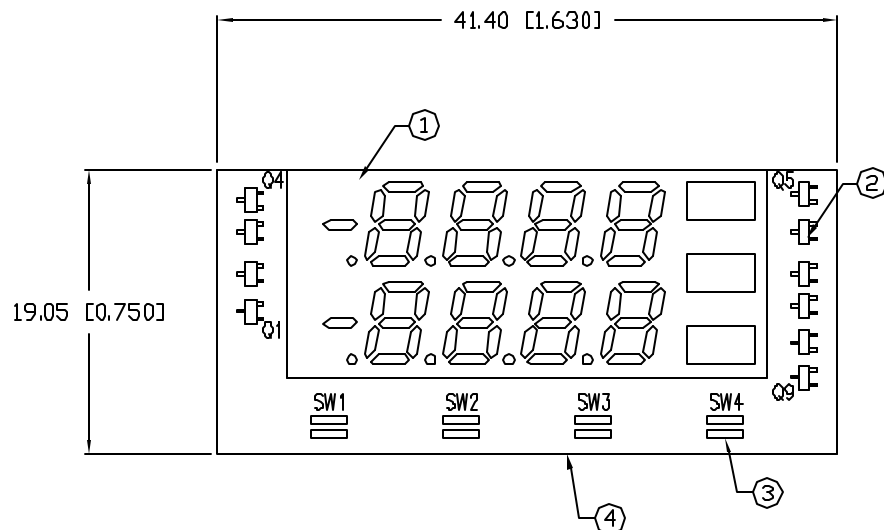


UNCONTROLLED DOCUMENT

PART NUMBER
LDQ-2R3214N22RIASYREV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	03.19.07

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=10\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635 (RED)		nm	
		565 (GREEN)		nm	
FORWARD VOLTAGE (R/G)		2.0/2.2	2.5/2.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY (R/G)		3,500/3,000		μcd	$I_f=10\text{mA}$
EMITTED COLOR:	RED/GREEN				
FACE COLOR:	GRAY				
SEGMENT COLOR:	MILKY WHITE DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	COLORS	MAX	UNITS
PEAK FORWARD CURRENT*		150	mA
STEADY CURRENT	(R/G)	30/25	mA
POWER DISSIPATION		105	mW
DERATE FROM 25°C		-1.2	mW/ $^\circ\text{C}$
OPERATING, STORAGE TEMP.		-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.		+260	$^\circ\text{C}$
2.0mm FROM BODY			3 SEC. MAX

* $t < 10\mu\text{s}$

NOTES:

- LUMEX PART# LDQ-2R3214N22RI.
- Q1-Q9 BIAS RESISTOR TRANSISTOR ON SEMICONDUCTOR #DTA143TET1 OR EQUIVALENT.
- SWITCH PADS.
- FR4.
- MOLEX CONNECTOR 87368-1420 OR EQUIVALENT.
- C1, C2, C3, C4 16V, 1 μF CERAMIC CHIP CAPACITOR, 0805 PACKAGE.
- C5 16V 10 μF TANTALUM CAPACITOR.
- IC ATMEL ATMEGA32-16AI OR EQUIVALENT.
- 16MHz CRYSTAL.
- C6, C7 20pF, 5V CERAMIC CHIP CAPACITOR.
- R1 0805, 10K Ω , 1% RESISTOR.
- R2-R9 0805, 150 Ω , 1% RESISTOR.

*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 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

A

PART NUMBER

LDQ-2R3214N22RIASY

0.22" EIGHT DIGIT, SEVEN SEGMENT, CUSTOM LED DISPLAY,
565nm GREEN CHIPS, GRAY FACE WITH WHITE SEGMENTS,
ASSEMBLED ON 1.6" x .75" PCB BOARD.

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.



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