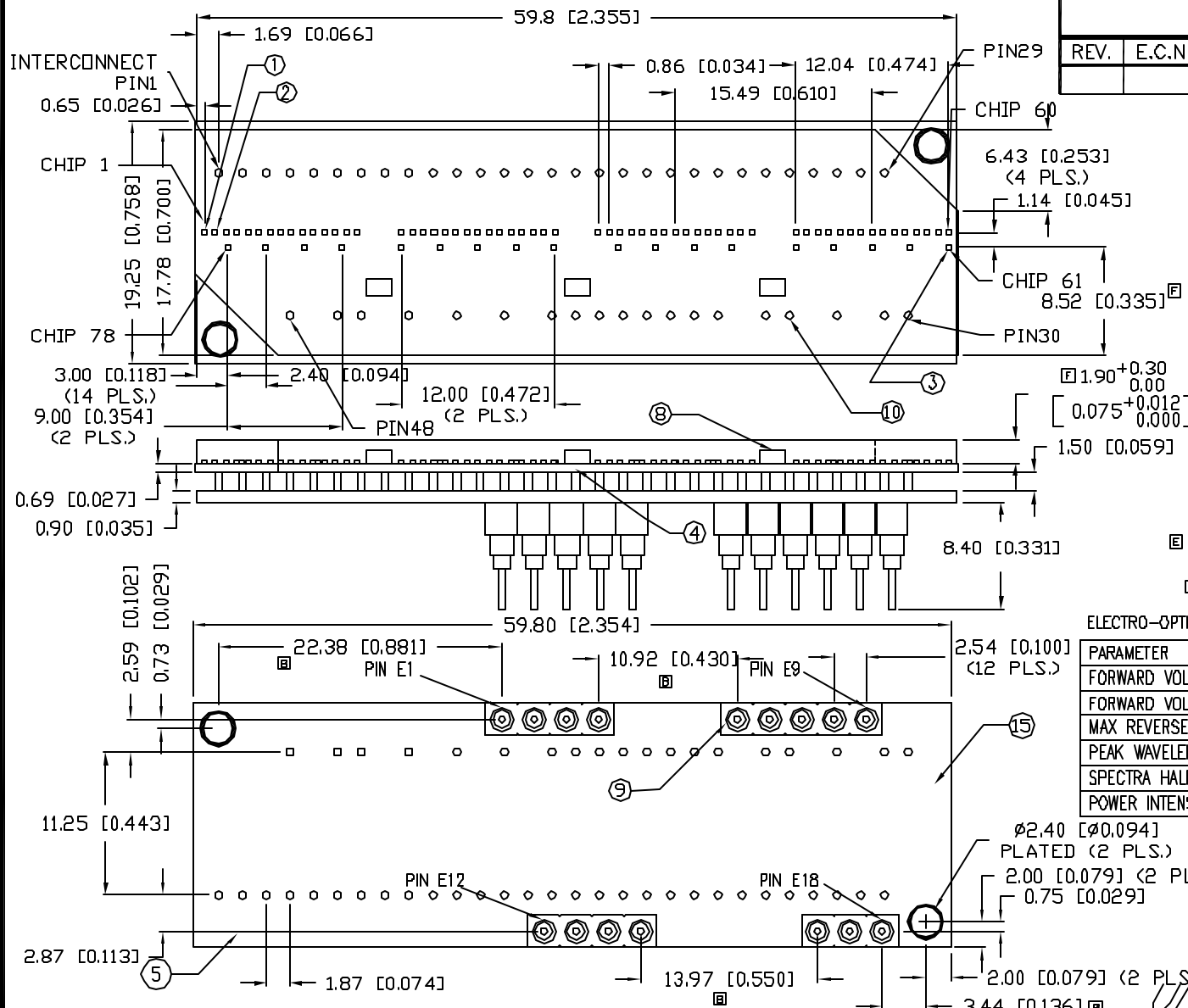


UNCONTROLLED DOCUMENT

PART NUMBER
SSD-LX78REV.
F

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
	SEE PAGE 2.	

NOTES:

1. SSD-LX010E1200CGPU (30 PCS.) CHIPS:1,3,5,7...59
2. SSD-LX010E1550CGPU (30 PCS.) CHIPS:2,4,6,8...60
3. SSD-LX014E870DGPU (18 PCS.) CHIPS:61-78
4. LXP-PCBCER78
5. FR4 RESISTOR BOARD
6. LED COATED BY NORLAND NOA 68.
7. TOLERANCE FOR CHIPS $\pm 10\text{nm}$ & $\pm 5\%$ POWER OUTPUT.
8. THERMISTOR, 2.5k Ω @ ROOM TEMP, 0805 PACKAGE (3 PCS.)
9. SAMTEC #BBS-116-G-A, SYMBOL:
10. GOLD PLATED INTERCONNECT PINS (48 PCS.), SYMBOL:
11. 620 Ω RESISTOR, 1% 0805 PACKAGE (30 PCS.)
12. 7.5 Ω HEATER ON BOTTOM OF CERAMIC BOARD.
13. 1 μF CAPACITOR, 0805 PACKAGE (7 PCS.)
14. 470 Ω RESISTOR, 1% 0805 PACKAGE (9 PCS.)
15. RESISTORS & CAPACITOR NOT SHOWN.
16. 16.469826-1, MM/YY-LX TO BE MARKED ON PCB, WHERE MM/YY IS MONTH/YEAR OF MANUFACTURE.
17. PACKAGE PARTS IN PINK ANTISTATIC TRAYS.

ELECTRO-OPTICAL CHARACTERISTICS:

PARAMETER	SYMBOL	TEST COND	870nm	1200nm	1550nm	UNITS
FORWARD VOLTAGE TYP.	V_f	$I_f=20\text{mA}$	1.4	0.8	0.8	V
FORWARD VOLTAGE MAX.	V_f	$I_f=20\text{mA}$	1.5	1.3	1.3	V
MAX REVERSE CURRENT	I_r	$V_r=3\text{V}$	10	10	10	μA
PEAK WAVELENGTH	λ_p	$I_f=20\text{mA}$	870	1200	1550	nm
SPECTRA HALF-WIDTH	$\Delta\lambda$	$I_f=20\text{mA}$	50	50	50	nm
POWER INTENSITY	I_v	$I_f=20\text{mA}$	4.0	0.6	0.4	mW

*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
-0.00 DECIMAL PRECISION MAX.=+0.00
-0.00 DECIMAL PRECISION

REV.
FPART NUMBER
SSD-LX78CUSTOM IR CERAMIC BOARD,
30:1200nm, 30:1550nm, 18:870nm.

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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.

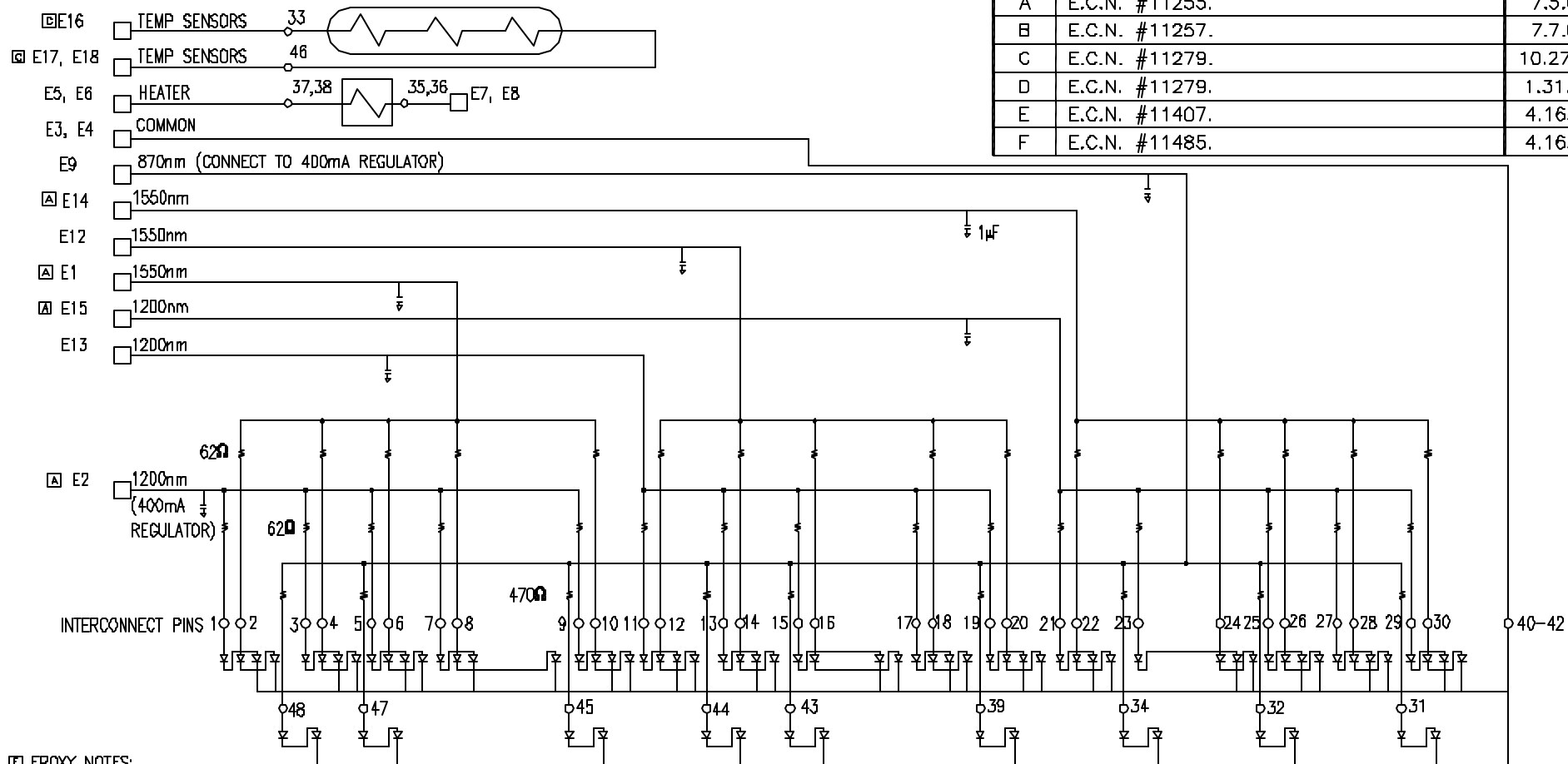


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			PAGE: 1 OF 2
			SCALE: N/A

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EPOXY NOTES:

1. EPOXY TO BE FREE OF BUBBLES AND FOREIGN OBJECTS.
2. THE EPOXY SURFACE WILL BE UNIFORM AND FREE OF SCRATCHES.
3. AFTER CURING, THE EPOXY WILL NOT BE TACKY AND MUST BE STRONG ENOUGH TO NOT DAMAGE DURING NORMAL HANDLING.
4. THE PCB WILL BE FREE OF EPOXY, ESPECIALLY IN THE VICINITY OF MOUNTING HOLES.

Pb

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

REV.
FPART NUMBER
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