

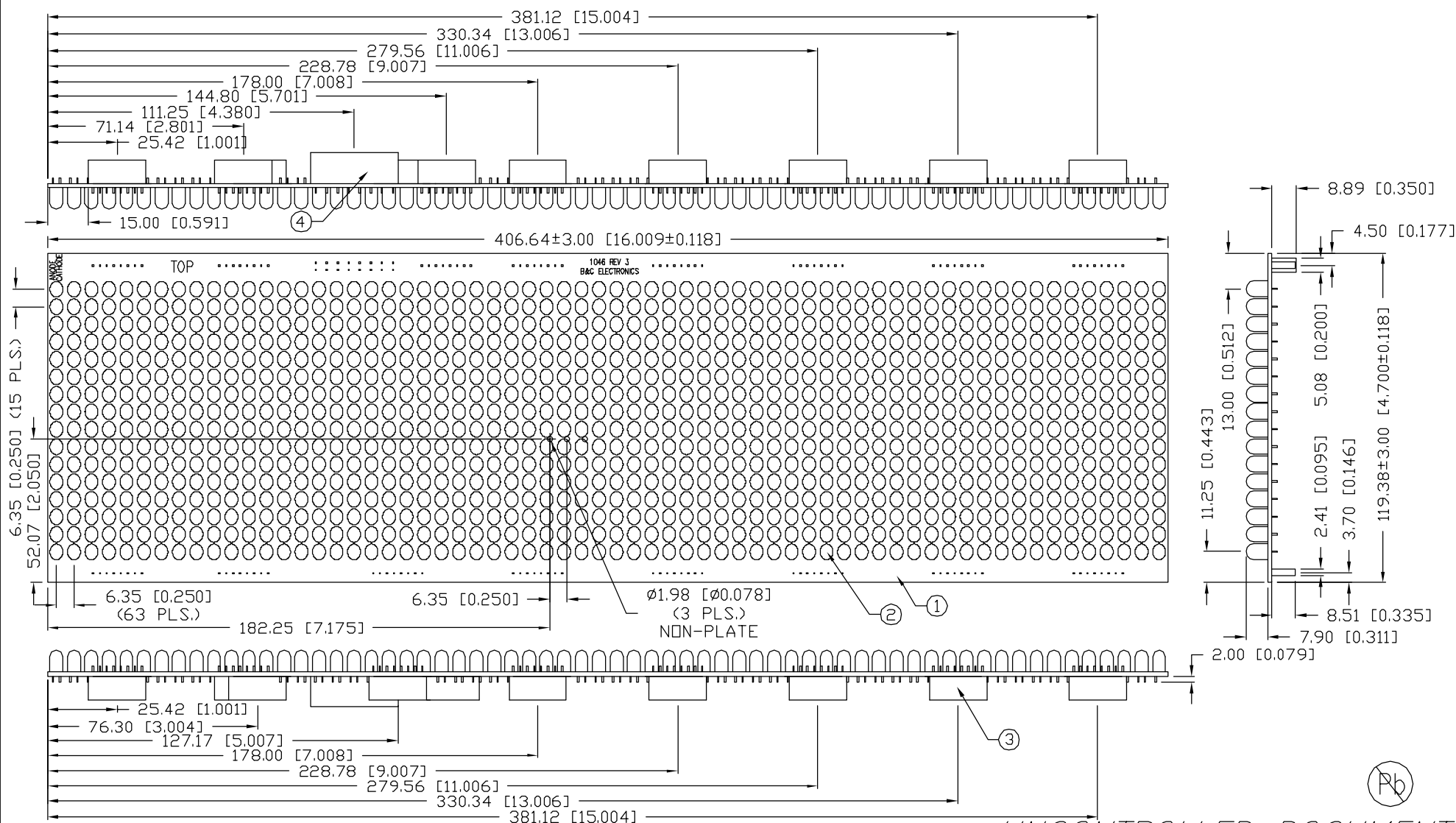
UNCONTROLLED DOCUMENT

PART NUMBER

SSA-PCB508E3SOC

REV.

D



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

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SSA-PCB508E3SOC

16 X 64 LED ASSEMBLY BOARD,

605nm AlInGaP SUPER ORANGE, WATER CLEAR.

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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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DATE: 07.10.08

PAGE: 1 OF 2

SCALE: N/A

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NOTES:

1. PCB DOUBLE SIDE FR4
2. SLX-LX508E3SOC (1024 PCS)
3. WCON CONNECTOR #2185-108SS5CYNX, 2.54mm PITCH, 16 PLS.
4. WCON CONNECTOR #2889-108SSNDUNT1, 3.96mm PITCH, 1PC.

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REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11514.	06.26.08
B	E.C.N. #11516.	07.14.08
C	E.C.N. #11518.	07.23.08
D	E.C.N. #11531.	09.16.08

ELECTRO-OPTICAL CHARACTERISTICS PER LED $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		605		nm	
FORWARD VOLTAGE		2.0	2.6	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=10\mu\text{A}$
AXIAL INTENSITY		1100		mcd	$I_f=20\text{mA}$
VIEWING ANGLE X		35		2x theta	
VIEWING ANGLE Y		75		2x theta	
EMITTED COLOR:	ORANGE				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	35	mA
POWER DISSIPATION	90	mW
DERATE FROM 25°C	.72	mW/ $^{\circ}\text{C}$
OPERATING TEMP.	-30 TO +80	$^{\circ}\text{C}$
STORAGE TEMP.	-40 TO +100	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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

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