

Job Name
DFM076190-EMG_EEG_PreAmp_Oct_16_2018

Creation Time 2018-10-16 09:11:51

New/Repeat Order
New Job

Part Number EMG EEG PreAmp

Revision 2

Customer Name

Operator Name

lyndap

Contact Name

Contact Email

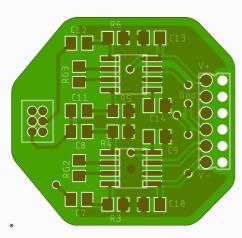
Job Class

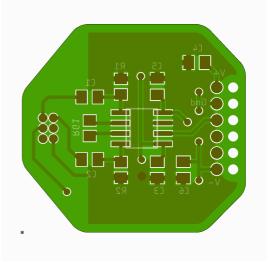
IPC Class 2

Job View

Buildup Top View Bottom View

silk_screen-top solder_mask-top copper-top copper-bot solder_mask-bot silk_screen-bot solder_paste-bot





Comments

When not specified in a fabrication drawing or readme notes, Sunstone Circuits standard processes, materials and guidelines will be used.

Coordinates provided on DFM report us the lower left corner of the PCB as the "origin". A small target is placed at the origin on the top/bottom views.

All DFM findings fall within standard manufacturing recommendations.

PCB can be ordered thru any of the quote and order services available at www.sunstone.com

Triangle Color References:

RED = "Below standard processing" – Requires CUSTOM quote or NO BID, Details will be provided in "DFM Findings to Review". (DFM analysis chart will show text in red)

YELLOW = "Slight modification necessary" – Findings fit into the Design Review (NRE): IF any modifications are needed, details would be provided "DFM Findings to Review". (DFM analysis chart will show text in blue)

GREEN/GRAY = "Meets standard processing" Fit into any of the on line service offerings (DFM analysis chart will show text in green)



DFM Analysis will report findings of "N/A" when smallest reportable measurement exceeds maximum thresholds (exceeds requirements).

Annular Ring measurements are based on the estimated DRILLED HOLE size. Depending on surface finish, the hole will be drilled 4-6mil larger than finished hole to allow for plate down.

SMD Pad and Pitch measurements are for FYI only and the triangle references can be disregarded. If any adjustments are needed these would be specified in the "DFM Finding to Review".

You can compare the service requirements for Sunstone Circuits at our comparison table available at: http://www.sunstone.com/pcb-manufacturing-capabilities

Visit our website at www.sunstone.com for more details on our on line services and to quote your PCB.

Help us improve our DFMplus service by completing this short on line survey. http://tinyurl.com/kq764v8

Please let me know if you have any questions regarding this DFMplus report. I can be contacted at: Lynda Postlethwaite (800) 228-8198 x247 lyndap@sunstone.com

Please disregard "conflict" notes below. These notes are for internal use only. They do not affect manufacturing or DFMplus reporting.

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Validation Status: No Validation

Validation Report:

Job Info

Part Size (X,Y) inch 1.075 x 1	Thickness 62 mil	I/L Weight 0 Oz	O/L Weight 1 Oz
Copper Layers 2	Drill Layer 1	Rout Length 3.529 inch	
Soldermask Side Both	Soldermask Color Green	Soldermask Type Photo Image	
Silkscreen Side Both	Silkscreen Color White	Impedance Tolerance 0%	Board Bow And Twist Percentage 0%
Gold Thickness 0 mil	Material FR4 150 Tg	Finish Type Tin Lead	

NC Layer Info

Drill Type	Number Of Bits	Number Of Holes	Min Hole Size (mil)	Max Hole Size (mil)
PTH	3	21	16	41
NPTH	1	6	41	41
Via	0	0	N/A	N/A
Laser	0	0	N/A	N/A
Total:	4	27		

Total stacked holes count: 0

Outer Layer Info

Top SMD Pads 44	Top SMD Min Pitch 50 mil	Bottom SMD Pads 26	Bottom SMD Min Pitch 50 mil
Top BGA Pads	Top BGA Min Pitch N/A	Bottom BGA Pads	Bottom BGA Min Pitch N/A
Top SMD Min Width 23.625 mil	Top BGA Min Width N/A	Bottom SMD Min Width 23.625 mil	Bottom BGA Min Width N/A
Has Top Drilled SMD/BGA	Top Test Point Count 65	Has Bottom Drilled SMD/BGA	Bottom Test Point Count 47
Gold Area Top O inch ²	Expose Area Top 0.158 inch ²	Gold Area Bottom O inch ²	Expose Area Bottom 0.108 inch ²
Gold Finger Count Top		Gold Finger Count Bottom	
Top Gold Fingers Typ Width N/A	Top Gold Fingers Typ Length N/A	Bottom Gold Fingers Typ Width N/A	Bottom Gold Fingers Typ Length N/A
Top Line to BGA Spacing N/A		Bot Line to BGA Spacing N/A	



DFM Analysis

Layer	Minimal Spacing (mil)	Typical Spacing (mil)	Minimal AR (mil)	Typical AR (mil)	Minimal Line Width (mil)	Typical Line Width (mil)
copper-top	8.3 (# 7)	10 (# 124)	7.2 (# 20)	7.9 (# 20)	16 (# 35)	16 (# 35)
copper-bot	6 (# 87)	6 (# 87)	7.2 (# 20)	7.9 (# 20)	16 (# 30)	16 (# 30)
Summary	6		7.2		16	

Layer	Min PTH	Typ PTH	
	To Cu	To Cu	
	(mil)	(mil)	
copper-top	16.2 (# 14)	16.2 (# 14)	
copper-bot	13.2 (# 12)	16.2 (# 14)	

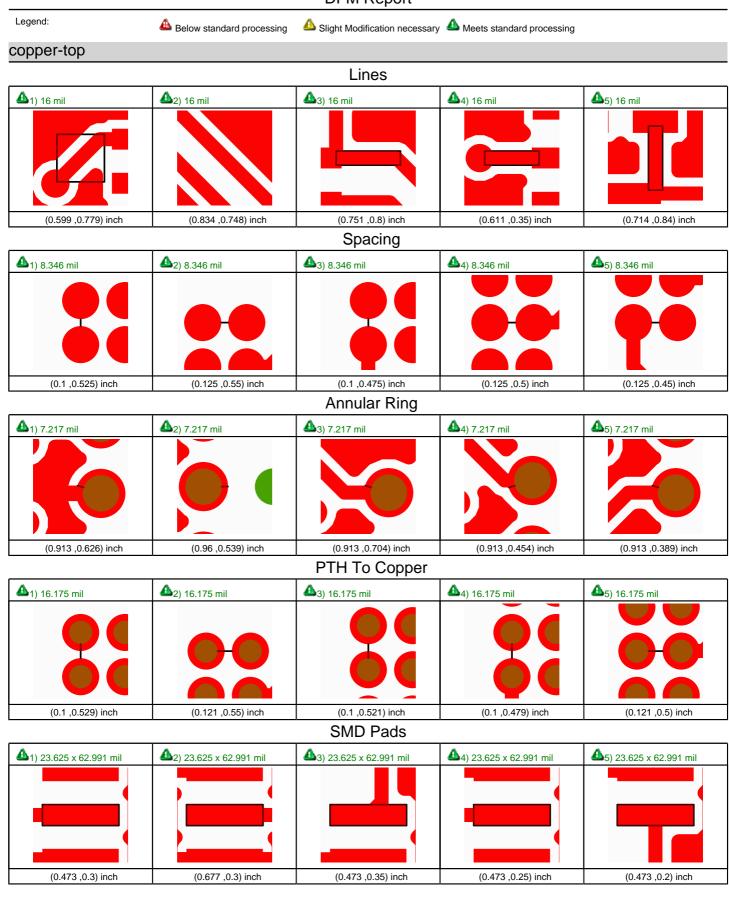


Copper Layer Info

Layer	Copper Area (inch²)	Copper Usage (%)	Copper Weight [Base]	Copper Thickness [Final]
copper-top	0.44	46	0 Oz	0 mil
copper-bot	0.52	56	0 Oz	0 mil



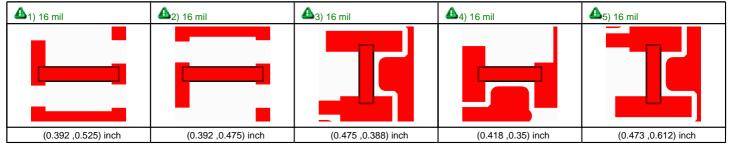
DFM Report



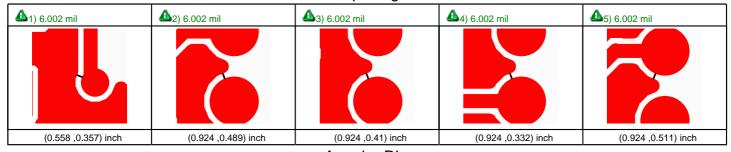


copper-bot

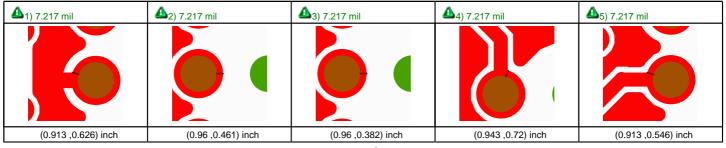




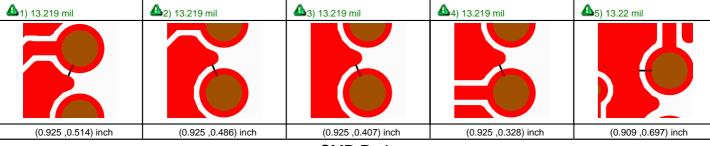
Spacing



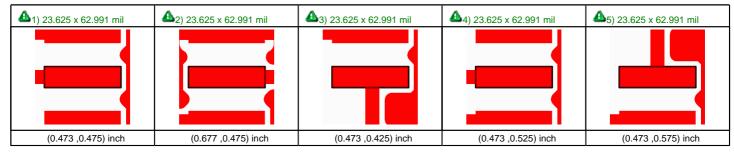
Annular Ring



PTH To Copper



SMD Pads





Attachments

Attached files: 1

Layer	Туре	Polarity	Input File Name
solder_paste-top	solder_paste	Positive	solderpaste_top.gbr
silk_screen-top	silk_screen	Positive	silkscreen_top.gbr
solder_mask-top	solder_mask	Positive	soldermask_top.gbr
copper-top	mixed	Positive	copper_top.gbr
copper-bot	mixed	Positive	copper_bottom.gbr
solder_mask-bot	solder_mask	Positive	soldermask_bottom.gbr
silk_screen-bot	silk_screen	Positive	silkscreen_bottom.gbr
solder_paste-bot	solder_paste	Positive	solderpaste_bottom.gbr
plated01-02	drill	Positive	drills.xln