

**** COMPLETE THIS FORM TO INITIATE SUPPLIER SCOUTING ****

MEPNN Supplier Scouting Opportunity Synopsis

(To view in larger text, press Ctrl + Simultaneously)

The submitting entity agrees to notify NIST MEP of the status of actions taken as a result of this scouting instance within 30 days after receiving a results report. I agree

Number of days to be posted if other than 30 25

Item to be Scouted Extruded Aluminum Heat exchanger with narrow gaps.

Please describe the item application/the end use of the item This high performance heat exchanger will be used in the electronics industry to cool chips and circuit boards in server farms.

Supplier Customer/Product NAICS Code, if known

TECHNICAL INFORMATION

1. Supplier Information

1a. Type of supplier being sought Manufacturer

If other, please specify type of supplier

1b. Reason for scouting submission New Product Startup

If other, please specify reason

2. Summary of Technical Specifications and Performance Requirements

2a. Describe the manufacturing process extruded or other metal processing that will create the narrow features.

2b. Provide dimensions, size, tolerances, and performance specifications for the item 11 inches wide, 3.25 inches tall, 2-3 feet long, with fins .08" and 1.44" See picture for more details.

2c. List required materials needed to make the product, including materials of product components aluminum: Client is not attached to a temper on the aluminum. Company would be open to other metals if that would increase the number of fins up top. Client can run an analysis which compares the effective thermal resistance from the increased number of fins.

2d. Are there applicable certification requirements? No

If yes, please explain applicable certification requirements

2e. Are there applicable regulations? No

If yes, please explain applicable regulations

2f. Are there any other standards, requirements, etc.? No

If yes, please explain other standards, requirements, etc.

2g. Additional Comments The attached file shows a schematic of an existing possible design, but the company is seeking a higher performance unit with the red additions (nubs) included. The tolerances of these are not as specific and the company would like to work with vendor to see what can be done (time and materials)

BUSINESS INFORMATION

3. Volume and Pricing

3a. Estimated potential business volume (i.e. # Units per day/month/year) For this first test we would want about four. All that said, we understand and are willing to absorb all of the NRE, die and tooling costs associated with extruding this part even at this low initial run.

3b. Estimated target price/unit cost information (flexible and negotiable not accepted) \$500 AFTER NRE is covered

4. Delivery Requirements

4a. When is it needed by? (immediate, 30 days, 6 months, etc.) 2-3 months

4b. Describe packaging requirements (i.e. individually/group packaging) none

4c. Where will this item be shipped? Corvallis, OR

5. Additional Comments

5a. Is there other information you would like to include? The company is seeking an innovative supplier, one that is willing to investigate possibilities and discuss new approaches.

6. Requesting Scout

6a. Scout Name David McFeeters-Krone

6b. Center Name OMEP

If an organization other than a Center, please enter

6c. Scout Email dmk@intelassets.com

Supplier Scouting Number (NIST MEP use only) 2023-012

Attachments [Tree_Branch_Fin_Extrusion_copy.pdf](#)

Created at 1/9/2023 9:23 PM by David McFeeters-Krone
Last modified at 1/10/2023 3:57 PM by Andrew C. Peterson

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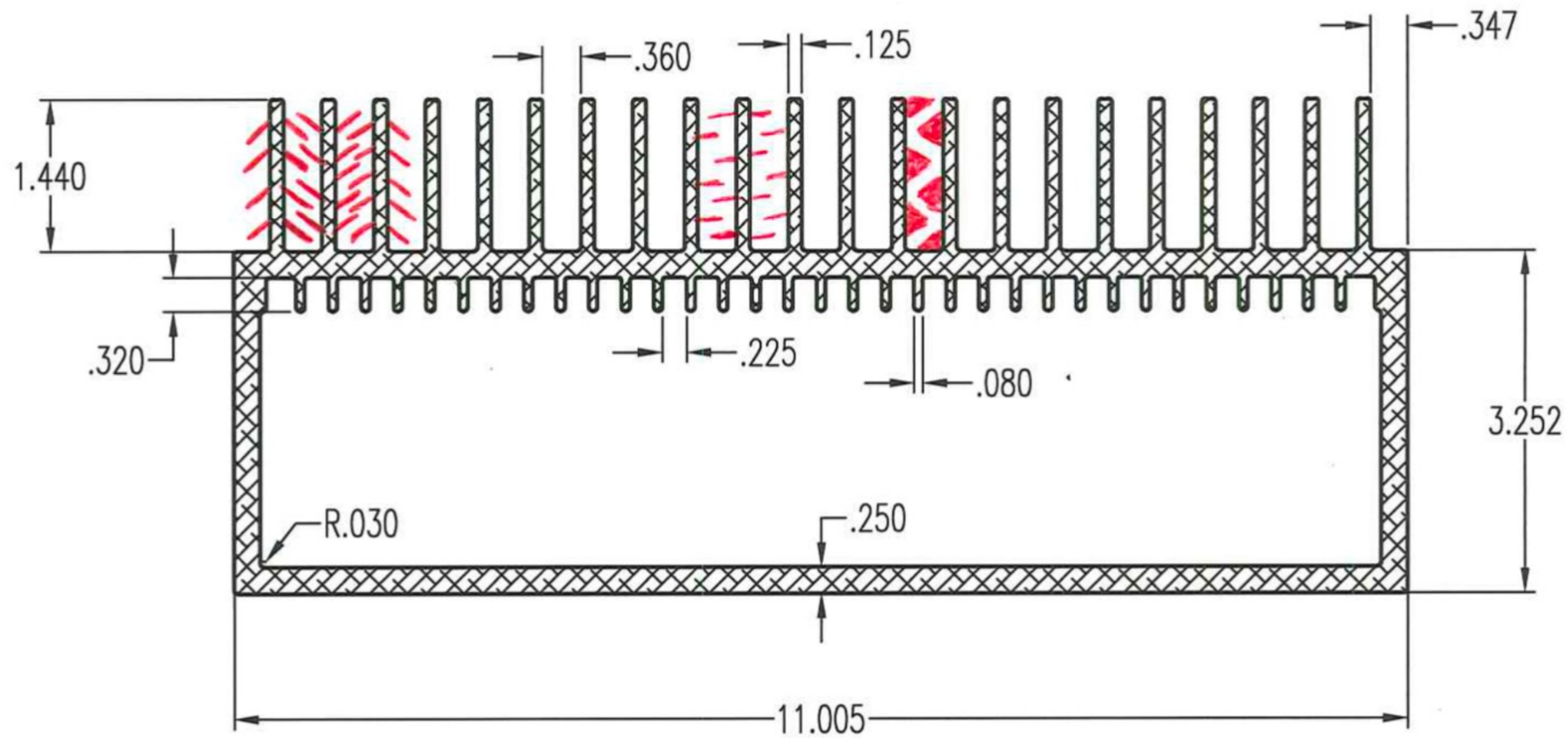
General Information

The **Manufacturing Extension Partnership (MEP)** connects the MEP National Network and is a program within the **National Institute of Standards and Technology (NIST)**.

For assistance using MEP Connect, please contact the **webmaster**.

NIST is an agency of the **U.S. Commerce Department**

For information on other federal programs, see **USA.gov**



ALL TOLERANCES ARE TO AA/ANSI H35.2 STANDARDS EXCEPT AS NOTED		STRAIGHTNESS & TWIST ARE CHECKED OVER THE FULL LENGTH OF PARTS, UNLESS AGREED UPON BY CUSTOMER & TABER		Quote Reference Number:	
Dimensions in (parenthesis) are for reference only.		All dimensions are in inches unless noted otherwise.		Backer No./ Feeder Plate No.	B-
				Bolster No.	BO-
Straightness:	0.0125 / ft	Area:	- sq. in.	Alloy:	-
Flatness:	0.004 / in	Wt/Ft:	- lbs./ft.	Circle Size:	-
Twist:	0.25° / ft ; 3° max	Perimeter:	- in	Container:	-
Angularity:	±1.5°	F.F.:	-	Die Size:	-
				Quote No.	-
				Rev#	-
R22- POTENTIAL FOR OREGON STATE					

Rev	Description	Date	By
0	SUBMITTED FOR BID	-	JJF

Customer	-
Customer Part No.	-
Desc.	-
Scale:	NTS
Drawn By:	-
Date:	-