

BGA PREFORM REQUEST FOR QUOTE

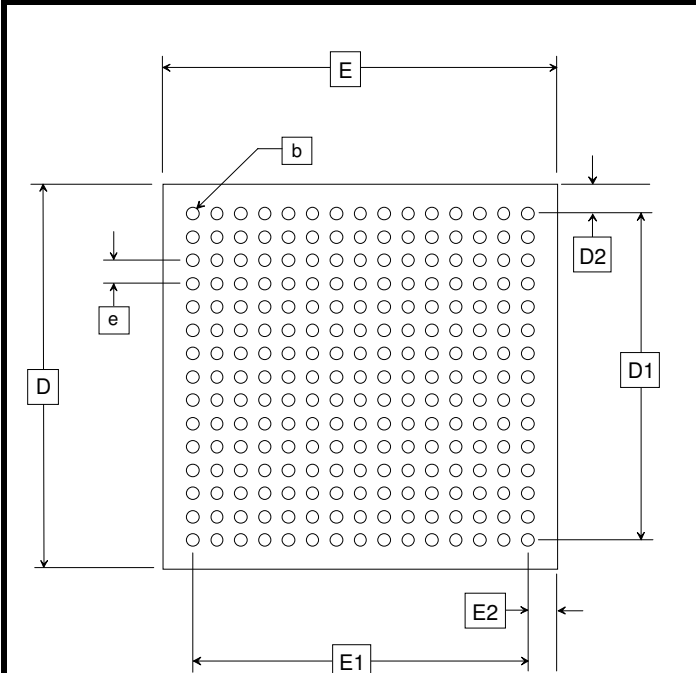
Winslow Automation ♦ 905 Montague Expwy ♦ Milpitas, CA 95035 ♦ Phone: 408-262-9004 ♦ Fax: 408-956-0199

CUSTOMER INFORMATION

COMPANY _____	CONTACT _____
ADDRESS _____	PHONE _____
CITY, STATE, ZIP _____	FAX _____
_____	EMAIL _____
_____	QTY _____
_____	DATE _____

REQUIRED PACKAGE INFORMATION

Please specify the information below.
If the information below is not available, a \$100 reverse engineering fee will be required.



DESCRIPTION

FULL MATRIX: Yes No (If no, attach drawing)
Indicate if drawing is TOP or BOTTOM view

ASYMMETRIC: Yes No
If Yes, O_D : _____ O_E : _____

CAVITY DOWN (CENTER CUT): Yes No

BALL COUNT: _____

b BALL SIZE:

<input type="checkbox"/> 0.33 mm (0.013")	<input type="checkbox"/> 0.61 mm (0.024")
<input type="checkbox"/> 0.38 mm (0.015")	<input type="checkbox"/> 0.635 mm (0.025")
<input type="checkbox"/> 0.46 mm (0.018")	<input type="checkbox"/> 0.76 mm (0.030")
<input type="checkbox"/> 0.51 mm (0.020")	<input type="checkbox"/> Other: _____
<input type="checkbox"/> 0.56 mm (0.022")	

SOLDER ALLOY: Sn63-Pb37 Sn96.5-Ag3.0-Cu0.5
 OTHER If other, specify: _____

BALL MATRIX (MD) : _____

BALL MATRIX (ME) : _____

e PITCH: $e_D =$ _____ mm $e_E =$ _____ mm or Variable

D BODY SIZE (mm): _____

E BODY SIZE (mm): _____

D2 OFFSET (mm): _____

E2 OFFSET (mm): _____

IMPORTANT DEFINITIONS:

1. Symbol D equals the longest side of the package.
2. Symbol E equals the shortest side of the package.
3. Symbol MD is the number of rows/columns on the long side.
4. Symbol ME is the number of rows/columns on the short side.
5. D_2 (Offset D) = $(D - D_1) / 2$
6. E_2 (Offset E) = $(E - E_1) / 2$
7. O_D : Center offset in D direction
8. O_E : Center offset in E direction

COMMENTS/SPECIAL INSTRUCTIONS:

PROGRAMMER APPROVAL: _____

DATE: _____