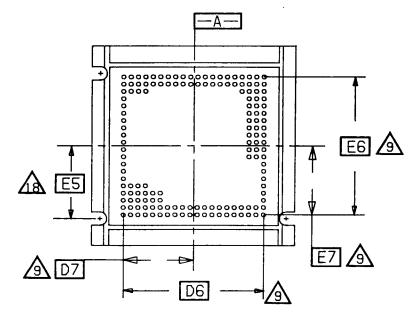


OPTION B: Constant Package Centering 🛕



SEE APPLICATION NOTE ON PAGE 8

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S					VARI	ATI	ONS	(DI	1ENS	IONS IN INCH	HES)
SYMBOL	Δ	A	N _O	А	.B	02			NOTE		AX E
L	MIN	MAX	Ē	MIN	MAX	E	MIN	MAX	E	MIN M	AX E
Α	. 555	. 565		. 585	. 595						
A 1	. 285	. 295		. 355	. 365						
A2	. 3 0 5		15	. 335		15					
А3	. 005	. 020	3	. 005	. 020	3					
р	. 188	. 192		.188	. 192						
D	1.995	2.005		2.745	2.755						
D2	1.758	1.762	_	2.377	2.383	_					
D3	1.695	1.745	5 -	2.295	2.345	5					
D4	1.700	1.740	5 9	2.330	2.400	5 9		:			
D6 E	XXX 1.995	BSC 2.005	9	XXX 2.745	BSC 2.755	ן פ					
E1		D BSC	10	1		10				:	
E3		BSC	10	. 375 BSC		10					
E4	1.605	•	5	2.270	1	5					
E5	•		18	1 .		18			i		
E6	XXX	BSC	9	XXX		9					
h	. 060	. 090	٠	. 060	. 090						
k	. 060	. 090		. 060	. 090						
s	. 100		4	. 100		4					
t	. 040	.100	5	. 040	.100	5					
M		15	7		20	7					
N		225	8	005	400	8					
P	. 025	.028	16	.025	.028	16					
NOTE			11								
NOTE		-247		1,2,6,19							
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S M B					VARI	ATI	ONS	(DII	MENS	IONS IN	INCH	ES)
8 0 L		BA	NOT E		BB	NOT E	M T N I	L	NOT E	1471	14.4	X E
	MIN	MAX	E	MIN	MAX	E	MIN	MAX	E	MIN	MA	^ E
A A1	. 555 . 285	. 565 . 295		. 585 . 355	. 595 . 365							!
A2	. 305	. 2.55	15	. 335	. 303	15						
A3	. 005	. 020	3	.005	.020	3						
Ъ	. 188	.192		.188	.192							
D	1.995	2.005		2.745	2.755					!		
D2	1.758	1.762		2.377	2.383							
D3	1.695	1.745	5	2.295	2.345	5				II.		
D4	1.700	1.740	5	2.330	2.400	5						(
D6	XXX	BSC	9	XXX	BSC	9						
E	1.995				2.755							
E1		D BSC	10	ł		10						
E3		BSC	_	. 375	4	_						
E4 E5	1.605		5 18	2.270		5 18						
E6	. 625 XXX	BSC	9	1.000 XXX	BSC	9						
h	. 060	. 090	٦	. 060	.090							
'' k	. 060	. 090		.060	.090							
s	. 100		4	.100		4						
t	. 040	.100	5	.040	. 100	5						
M		15	7		20	7						
N		225	8		400	8						
P	. 0 25	. Ø28	16	. 0 25	. 028	16						
		ON B	11		ON B	11						
NOTE		6,19		1,2,	6,19							
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	OUILIN	·		CARRIE	n FAMIL	'			_			

APPLICATION NOTE FOR PINHOLE LOCATION OPTIONS

The difference between Options A and B is the method for locating the matrix of pinholes for insertion of a PGA package.

Option A defines a constant pinhole location for any size PGA pin matrix regardless of odd or even type. The body centerlines of a PGA with an even pin matrix will be offset by .050" from the centerlines of the carrier. The advantage to this option is that test handlers and contactor sets can be used for either odd or even configurations. The disadvantage is that other operations (eg. mark or heatsink attachment) must be able to accommodate this offset.

Option B defines a constant package location for any size PGA pin matrix regardless of odd or even type. The body of an inserted PGA is always centered in the carrier but the location of the array of pinholes will be different for odd and even configurations. The advantages and disadvantages are the reverse of those for Option A; test handlers must be able to accommodate the different arrays with unique contactors for odd and even types.

NOTES:

1	Dimensioning per ANSI Y14.5M-1982.
2	Refer to MO symbol list.
Δ	Dimension "A3" represents the pin tip clearance for a fully inserted PGA package.
4	
\$	Tapers and inserts for nesting of carriers are allowed if the basic dimension
6 7 8	is satisfied. 19 X 19 and 20 X 20 matrix sizes are shown for illustration only. "M" is the maximum pin matrix size allowed for this variation. "N" is the maximum pin count allowed for this variation.
<u>\$</u>	Dimension D6 and E6 are equal to (* of holes/side - 1) X .100". Dimension D7 is equal to 1/2 of D6: E7 is equal to 1/2 of E6.
$\sqrt{\mathbf{Q}}$	The third slot is used for polarization only.
<u> 11</u>	The array of holes must be oriented in conformance with either ${\tt Option}\ {\tt A}\ {\tt or}\ {\tt B}$
12	as defined in the variation tables. For even-numbered pin matrix sizes, "NI" is equal to 1/2 the number of holes per side.
^	For odd-numbered pin matrix sizes, "N1" is equal to 1/2 the number of spaces per side.
13	"Ni-1" applies to even-numbered matrix sizes only.
44	-C- is the seating plane of the carrier. Relief for lids on cavity-down PGA packages may be used where appropriate.
<u>13</u>	Dimension "A2" represents the height clearance for a fully inserted
19	PGA package. Relief holes for PGA package standoffs may be added where appropriate.
$\dot{\nabla}$	Exposed pin length must be .060" minimum.
18	Dimension E5 is 1/2 of dimension E1.
19	Controlling Dimension: INCHES.

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