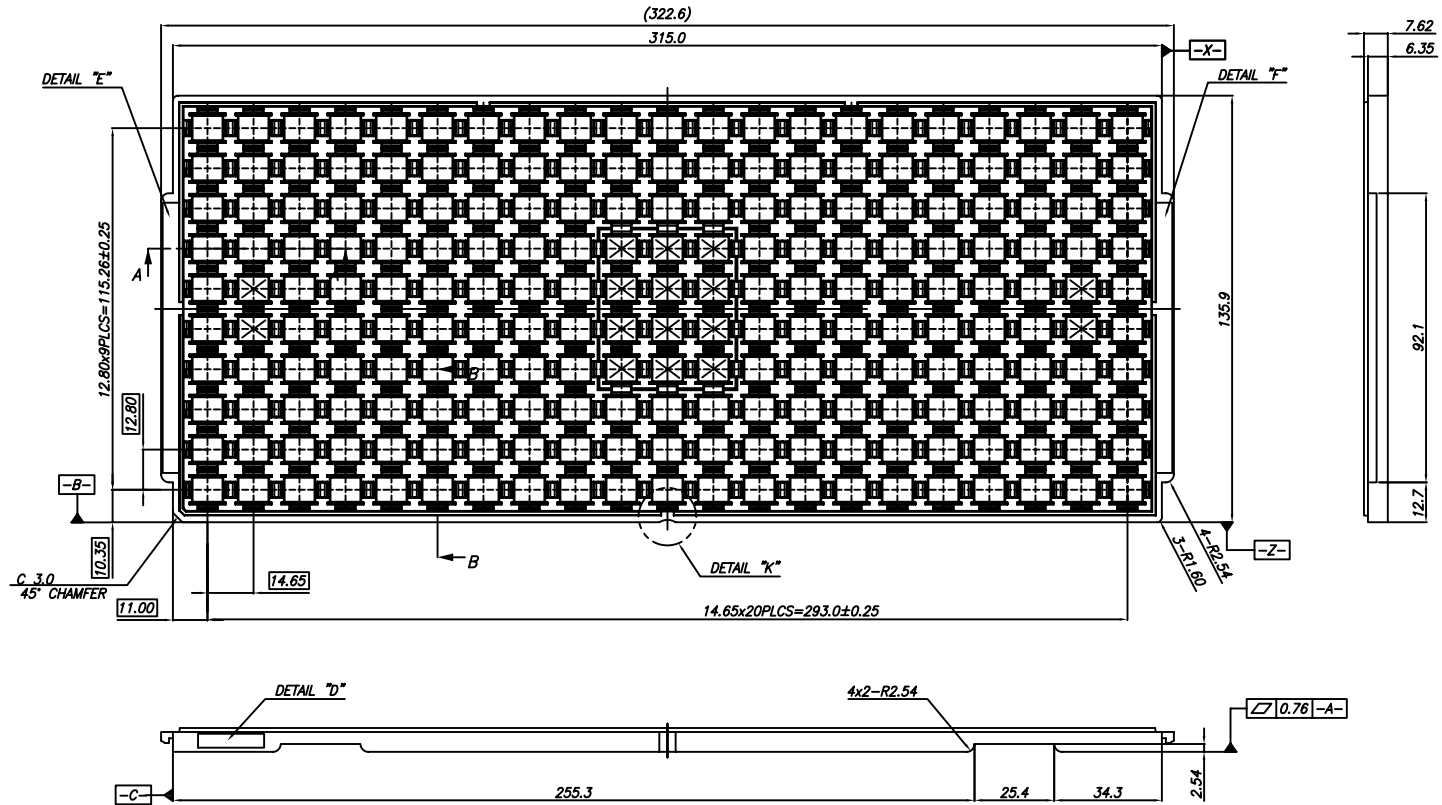


REV	DESCRIPTION	DATE	APPROVED
00	INITIAL COMPOSITE DRAWING	01/07/10	MD

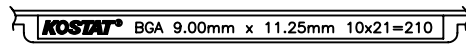


BGA 9.00mm x 11.25mm
KS - 880414 REV.00

DETAIL "D"
(SCALE:2/1)



DATE DETAIL
(SCALE:2/1)



DETAIL "E"
(SCALE:2/1)



DETAIL "F"

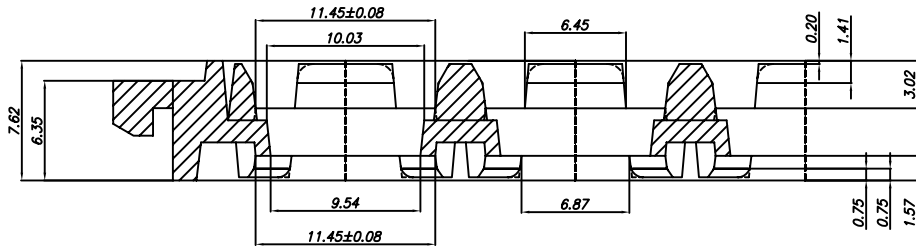
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APPROVALS: DRAWN: M.OTHEND / D.PRUITT
CHECKED: R.RANGANATHAN

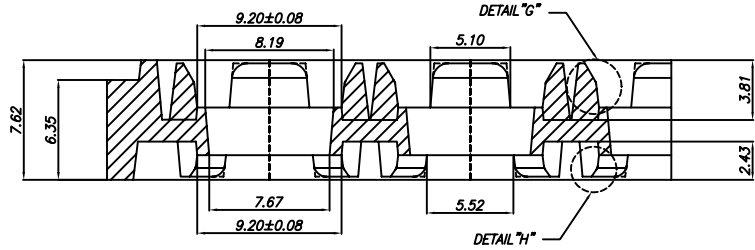
DATE:

PIECE PART DRAWING BGA 9.00mm X 11.25mm BLACK TRAY		
DRAWING NO.	50-8064 REV 0	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		
FRACTIONS N/A	DECIMALS XXX ± 0.03 XXXX ± 0.03	ANGLES ± 1
SCALE N/A	SIZE N/A	SHEET 1 OF 5

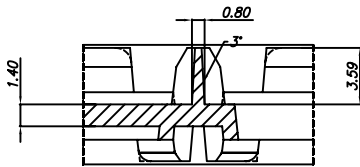
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL COMPOSITE DRAWING	01/07/10	MD



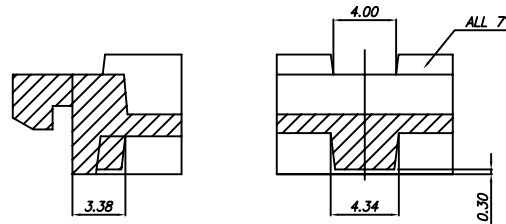
SECTION "A-A"
(SCALE:5/1)



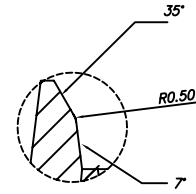
SECTION "B-B"
(SCALE:5/1)



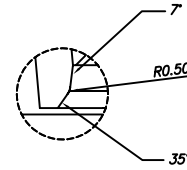
VACUUM CELL
(SCALE:5/1)



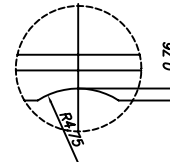
SLIP LOCK DETAIL
(SCALE:5/1)



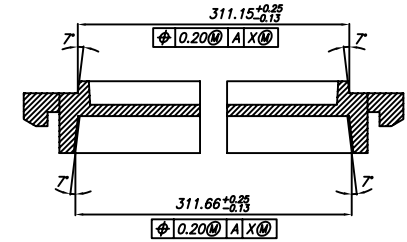
DETAIL "G"
(SCALE:10/1)



DETAIL "H"
(SCALE:10/1)



DETAIL "K"
(SCALE:5/1)



TRAY STACKING DETAIL
(SCALE:4/1)

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PIECE PART DRAWING
BGA 9.00mm X 11.25mm
BLACK TRAY

DRAWING NO.

50-8064 REV0

APPROVALS

DATE:

DRAWN:
MOTHEND / DPRUITT

CHECKED:
R.RANGANATHAN

TOLERANCES UNLESS OTHERWISE SPECIFIED:

FRACTIONS
N/A

DECIMALS
XXXX ± 0.03
XXXX ± 0.03

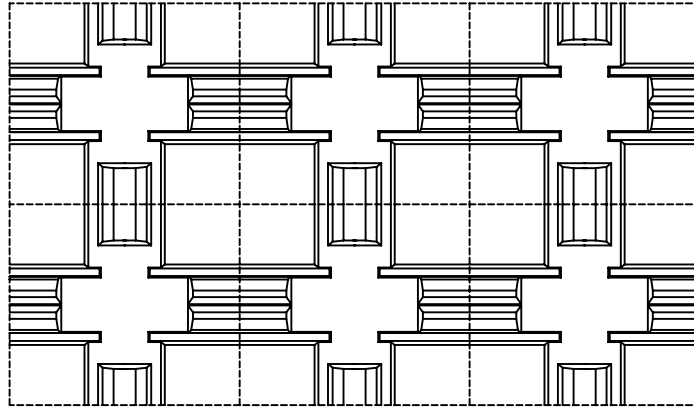
ANGLES
± 1

SCALE
N/A

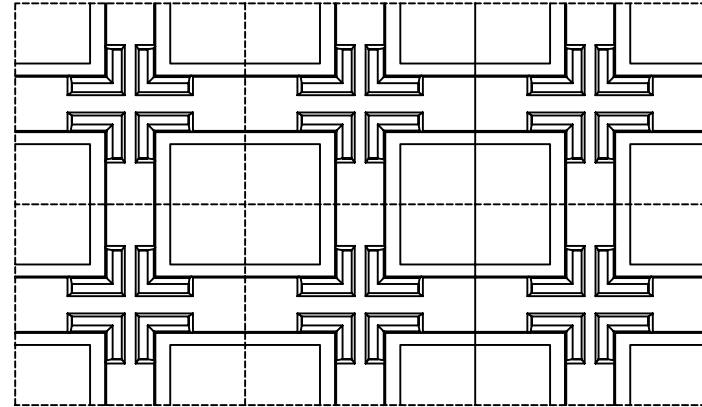
SIZE
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SHEET
2 OF 5

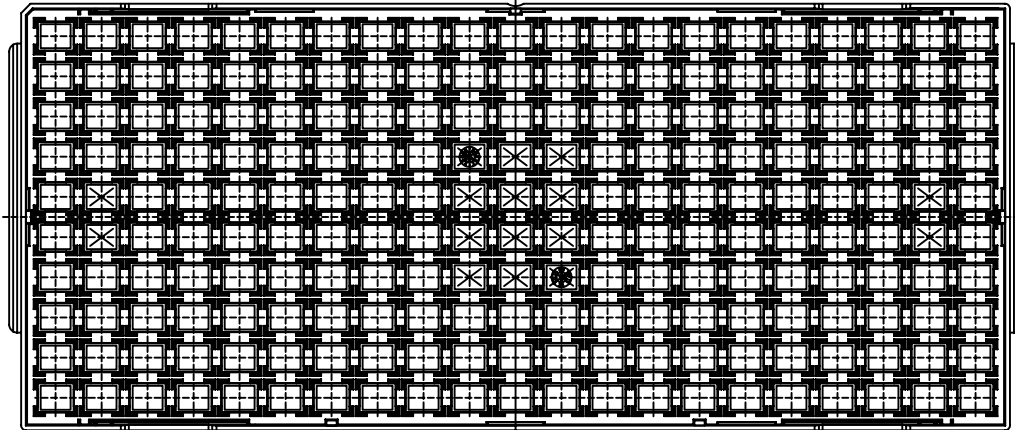
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL COMPOSITE DRAWING	01/07/10	MD



TOP VIEW
(SCALE:5/1)



BOTTOM VIEW
(SCALE:5/1)



BOTTOM VIEW
(SCALE:1/1)

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PIECE PART DRAWING
BGA 9.00mm X 11.25mm
BLACK TRAY

DRAWING NO. 50-8064 REV0

APPROVALS	DATE:	TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DRAWN: M.OTHIEHD / D.PRUITT		FRACTIONS N/A	DECIMALS XXXX ± 0.03 XXXX ± 0.03	ANGLES ± 1
CHECKED: R.RANGANATHAN		SCALE N/A	SIZE N/A	SHEET 3 OF 5

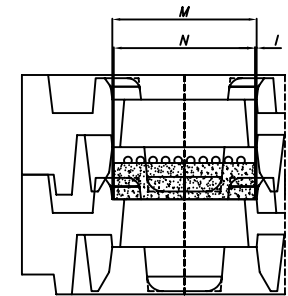
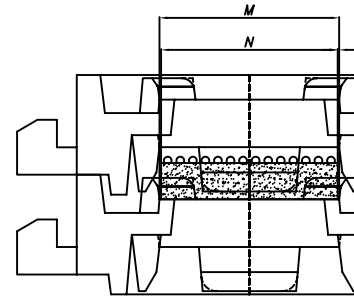
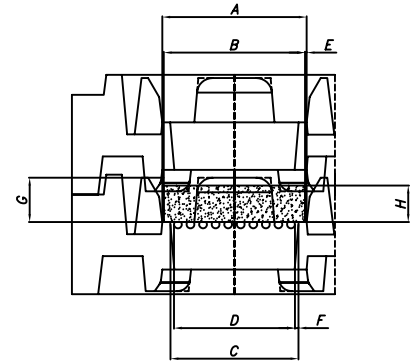
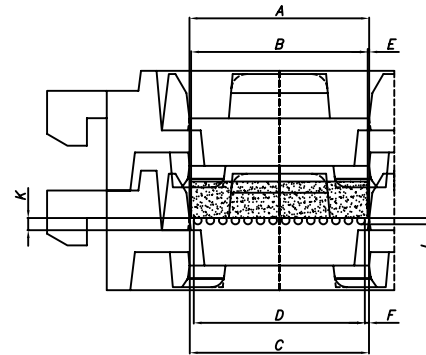
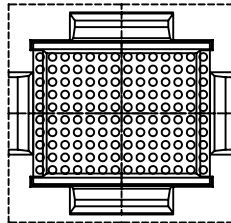
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL COMPOSITE DRAWING	01/07/10	MD

BGA 9.00mm x11.25mmx2.32mm

SIMULATION CRITERIA				
1. $A > B$	PACKAGE LATERAL PLAY			
2. $C > D$	BALL LATERAL PLAY			
3. $E < F$	BALL TOUCH THE SHELVES			
4. $G > H$	PACKAGE VERTICAL PLAY			
5. $I > \text{Zero}$	PACKAGE LATERAL PLAY (FLIPPED)			
6. $K > L$	BALL TOUCH THE FLOOR			
7. $M > N$	PACKAGE LATERAL PLAY (FLIPPED)			

Section A-A					Results
No.	Condition	Nominal	Max. TRAY Min. PKG	Min. TRAY Max. PKG	
1	Tray A	11.450	11.530	11.370	Pass
	Pkg. B	11.250	11.150	11.350	
2	Tray C	11.410	11.540	11.280	Pass
	Pkg. D	10.900	10.850	10.950	
3	Gap. E(A-B/2)	0.100	0.190	0.010	Pass
	Gap. F(C-D/2)	0.255	0.345	0.165	
4	Tray G	3.320	3.450	3.190	Pass
	Pkg. H	2.320	2.170	2.470	
5	Gap. I(M-N/2)	0.100	0.190	0.010	Pass
	Gap. J(O-P/2)	-	-	-	
6	Tray K	0.770	0.900	0.640	Pass
	Pkg. L	0.400	0.300	0.500	
7	Tray M	11.450	11.530	11.370	Pass
	Pkg. N	11.250	11.150	11.350	

Section B-B					Results
No.	Condition	Nominal	Max. TRAY Min. PKG	Min. TRAY Max. PKG	
1	Tray A	9.200	9.280	9.120	Pass
	Pkg. B	9.000	8.900	9.100	
2	Tray C	8.160	8.290	8.030	Pass
	Pkg. D	7.700	7.650	7.750	
3	Gap. E(A-B/2)	0.100	0.190	0.010	Pass
	Gap. F(C-D/2)	0.230	0.320	0.140	
4	Tray G	3.320	3.450	3.190	Pass
	Pkg. H	2.320	2.170	2.470	
5	Gap. I(M-N/2)	0.100	0.190	0.010	Pass
	Gap. J(O-P/2)	-	-	-	
6	Tray K	0.770	0.900	0.640	Pass
	Pkg. L	0.400	0.300	0.500	
7	Tray M	9.200	9.280	9.120	Pass
	Pkg. N	9.000	8.900	9.100	



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PIECE PART DRAWING
BGA 9.00mm X 11.25mm
BLACK TRAY

DRAWING NO.

50-8064 REV0

APPROVALS DATE:

DRAWN:
MOTHIEND / DPRUITT

CHECKED:
R.RANGANATHAN

TOLERANCES UNLESS OTHERWISE SPECIFIED:
FRACTIONS N/A DECIMALS 100.0000 ± 0.0050 REVO ANGLES ± 1
SCALE N/A SIZE N/A SHEET 4 OF 5

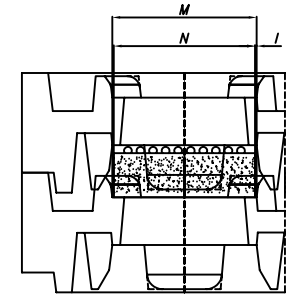
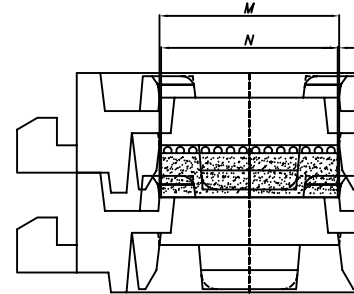
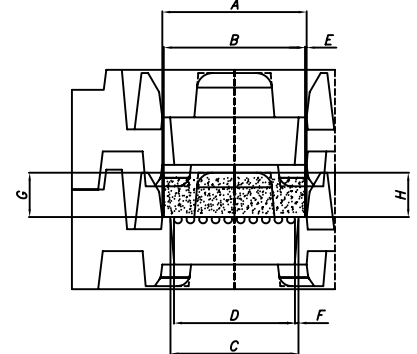
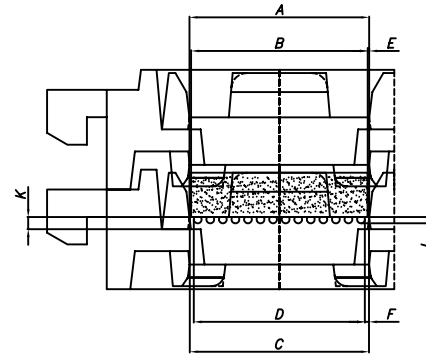
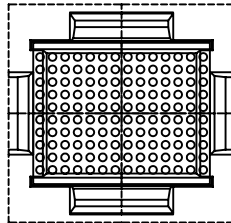
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL COMPOSITE DRAWING	01/07/10	MD

BGA 9.00mm x11.25mmx2.82mm

SIMULATION CRITERIA					
1.	A > B	PACKAGE LATERAL PLAY			
2.	C > D	BALL LATERAL PLAY			
3.	E < F	BALL TOUCH THE SHELVE			
4.	G > H	PACKAGE VERTICAL PLAY			
5.	I > Zero	PACKAGE LATERAL PLAY (FLIPPED)			
6.	K > L	BALL TOUCH THE FLOOR			
7.	M > N	PACKAGE LATERAL PLAY (FLIPPED)			

Section A-A					
No.	Condition	Nominal	Max. TRAY Min. PKG	Min. TRAY Max. PKG	Results
1	Tray A	11.450	11.530	11.370	Pass
	Pkg. B	11.250	11.150	11.350	
2	Tray C	11.410	11.540	11.280	Pass
	Pkg. D	10.900	10.850	10.950	
3	Gap. E(A-B/2)	0.100	0.190	0.010	Pass
	Gap. F(C-D/2)	0.255	0.345	0.165	
4	Tray G	3.320	3.450	3.190	Pass
	Pkg. H	2.820	2.670	2.970	
5	Gap. I (M-N/2)	0.100	0.190	0.010	Pass
	Gap. J (O-P/2)	-	-	-	
6	Tray K	0.770	0.900	0.640	Pass
	Pkg. L	0.400	0.300	0.500	
7	Tray M	11.450	11.530	11.370	Pass
	Pkg. N	11.250	11.150	11.350	

Section B-B					
No.	Condition	Nominal	Max. TRAY Min. PKG	Min. TRAY Max. PKG	Results
1	Tray A	9.200	9.280	9.120	Pass
	Pkg. B	9.000	8.900	9.100	
2	Tray C	8.160	8.290	8.030	Pass
	Pkg. D	7.700	7.650	7.750	
3	Gap. E(A-B/2)	0.100	0.190	0.010	Pass
	Gap. F(C-D/2)	0.230	0.320	0.140	
4	Tray G	2.820	3.450	3.190	Pass
	Pkg. H	2.320	2.170	2.470	
5	Gap. I (M-N/2)	0.100	0.190	0.010	Pass
	Gap. J (O-P/2)	-	-	-	
6	Tray K	0.770	0.900	0.640	Pass
	Pkg. L	0.400	0.300	0.500	
7	Tray M	9.200	9.280	9.120	Pass
	Pkg. N	9.000	8.900	9.100	



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PIECE PART DRAWING
BGA 9.00mm X 11.25mm
BLACK TRAY

DRAWING NO. 50-8064 REV0

APPROVALS		DATE:	
DRAWN: MOTHIEND / DPRUITT		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
CHECKED: R.RANGANATHAN		FRACTIONS N/A	DECIMALS XXXX ± 0.03 XXXX ± 0.03
		SCALE N/A	ANGLES ± 1
		SIZE N/A	SHEET 5 OF 5