



1	PRECISION METAL
2	PRECISION METAL
3	PRECISION METAL
4	PRECISION METAL
5	PRECISION METAL
6	PRECISION METAL
7	PRECISION METAL

1	SPRING PLATE ASSEMBLY	3
1	TOP SUPPORT PLATE	2
1	BOLSTER PLATE ASSEMBLY WITH INSULATOR	1

CUSTOMER DRAWING
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Tyco Electronics		Norwood, Massachusetts 02062	
DESIGNED BY: O. SHARP	DATE: 11-19-02	MATERIAL: N/A	
ENGINEER: W. ALDEN	DATE: 11-20-02	FINISH: N/A	
DESIGNED BY: O. SHARP	DATE: 11-19-02	MATERIAL: N/A	
ENGINEER: W. ALDEN	DATE: 11-20-02	FINISH: N/A	

CUSTOMER DRAWING		CUSTOMER DRAWING	
HARDWARE KIT		HARDWARE KIT	
BGA		BGA	
SCALE: 1:1		SCALE: 1:1	
PART NO.: C-1640261		PART NO.: C-1640261	
SHEET NO.: 7		SHEET NO.: 7	

PRELIMINARY

4		3							2							1						
MATRIX BGA HARDWARE																						
HARDWARE KIT PART NO.	SOCKET PART NO.	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	HARDWARE KIT PART NO.	SOCKET PART NO.	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"							
1640261-1	1640240-1, 1640258-1, 1640320-1, 3-1640240-6, 3-1640258-6	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	.81 (.032)	2-1640261-0	2-1640240-5, 2-1640258-5, 1-1640320-6	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.41 (.095)							
1640261-2	1640240-2, 1640258-2, 1640320-2, 1640240-5, 1640258-5, 1640320-5, 3-1640240-7, 3-1640258-7	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	.89 (.035)	2-1640261-1	2-1640240-6, 2-1640258-6	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.67 (.105)							
1640261-3	1640240-3, 1640258-3, 1640320-3, 3-1640240-8, 3-1640258-8, 2-1640320-5	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	.76 (.030)	2-1640261-2	2-1640240-7, 2-1640258-7, 2-1640320-1	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.03 (.080)							
1640261-4	1640240-4, 1640258-4, 1640320-4, 3-1640240-9, 3-1640258-9	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	.51 (.020)	2-1640261-3	2-1640240-8, 2-1640258-8, 1-1640320-8	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	1.85 (.073)							
1640261-5	1640240-6, 1640258-6, 1640320-6, 1-1640240-2, 1-1640258-2, 2-1640320-6, 4-1640240-1, 4-1640258-9	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	.89 (.035)	2-1640261-4	2-1640240-9, 2-1640258-9, 1-1640320-9	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.08 (.082)							
1640261-6	1640240-7, 1640258-7	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	1.19 (.047)	2-1640261-5	3-1640240-0, 3-1640258-0	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.34 (.092)							
1640261-7	1640240-8, 1640258-8	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	1.27 (.050)	2-1640261-6	3-1640240-1, 3-1640258-1	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.21 (.087)							
1640261-8	1-1640240-0, 1-1640258-0	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	1.14 (.045)	2-1640261-7	3-1640240-2, 3-1640258-2	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.34 (.092)							
1640261-9	1-1640240-1, 1-1640258-1	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	1.25 (.049)	2-1640261-8	3-1640240-3, 3-1640258-3, 2-1640320-4	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.84 (.112)							
1-1640261-0	1-1640240-3, 1-1640258-3	38.10 (1.500)	48.76 (1.920)	3.35 (.132)	48.26 (1.900)	60.00 (2.362)	1.14 (.045)	2-1640261-9	3-1640240-4, 3-1640258-4	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	3.30 (.130)							
1-1640261-1	1-1640240-4, 1-1640258-4, 1-1640320-4	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.27 (.050)	3-1640261-0	3-1640240-5, 3-1640258-5	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	3.05 (.120)							
1-1640261-2	1-1640240-5, 1-1640258-5, 1-1640320-5	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.70 (.067)	3-1640261-3	1-1640320-7	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.16 (.085)							
1-1640261-3	1-1640240-6, 1-1640258-6, 1-1640320-0, 2-1640240-1, 2-1640258-1	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.83 (.072)	3-1640261-4	2-1640320-0	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	1.91 (.075)							
1-1640261-4	1-1640240-7, 1-1640258-7, 1-1640320-1	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.65 (.065)	3-1640261-5	2-1640320-2	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.98 (.117)							
1-1640261-5	1-1640240-8, 1-1640258-8, 1-1640320-2, 2-1640240-3, 2-1640258-3	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	2.03 (.080)	3-1640261-6	2-1640320-3	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	1.27 (.050)							
1-1640261-6	1-1640240-9, 1-1640258-9, 1640320-9, 2-1640320-7	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.32 (.052)	3-1640261-7	2-1640320-8	62.00 (2.441)	72.66 (2.861)	6.53 (.257)	72.16 (2.841)	83.90 (3.303)	2.54 (.100)							
1-1640261-7	2-1640240-0, 2-1640258-0	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.78 (.070)															
1-1640261-8	2-1640240-2, 2-1640258-2	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.02 (.040)															
1-1640261-9	2-1640240-4, 2-1640258-4, 1-1640320-3	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	2.16 (.085)															
3-1640261-1	1640320-7	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	.76 (.030)															
3-1640261-2	1640320-8	50.80 (2.000)	61.46 (2.420)	4.94 (.195)	60.96 (2.400)	72.70 (2.862)	1.78 (.070)															

CUSTOMER DRAWING
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

TITANIUM
CUSTOMER DRAWING,
HARDWARE KIT
BGA
DATE: 11-19-02
SCALE: 1:1
PART NO.: C-1640261
REV: 7

DO NOT SCALE
Tyco Electronics
Barnard, Massachusetts 02962
DESIGNED BY: W. SHARP
DATE: 11-19-02
DRAWN BY: W. ALDEN
DATE: 11-20-02
CHECKED BY: C. CHAMM
PROJECT: SYSTEM
PROJ. NO.: N/A

REV: []
DATE: []
BY: []
DESC: []