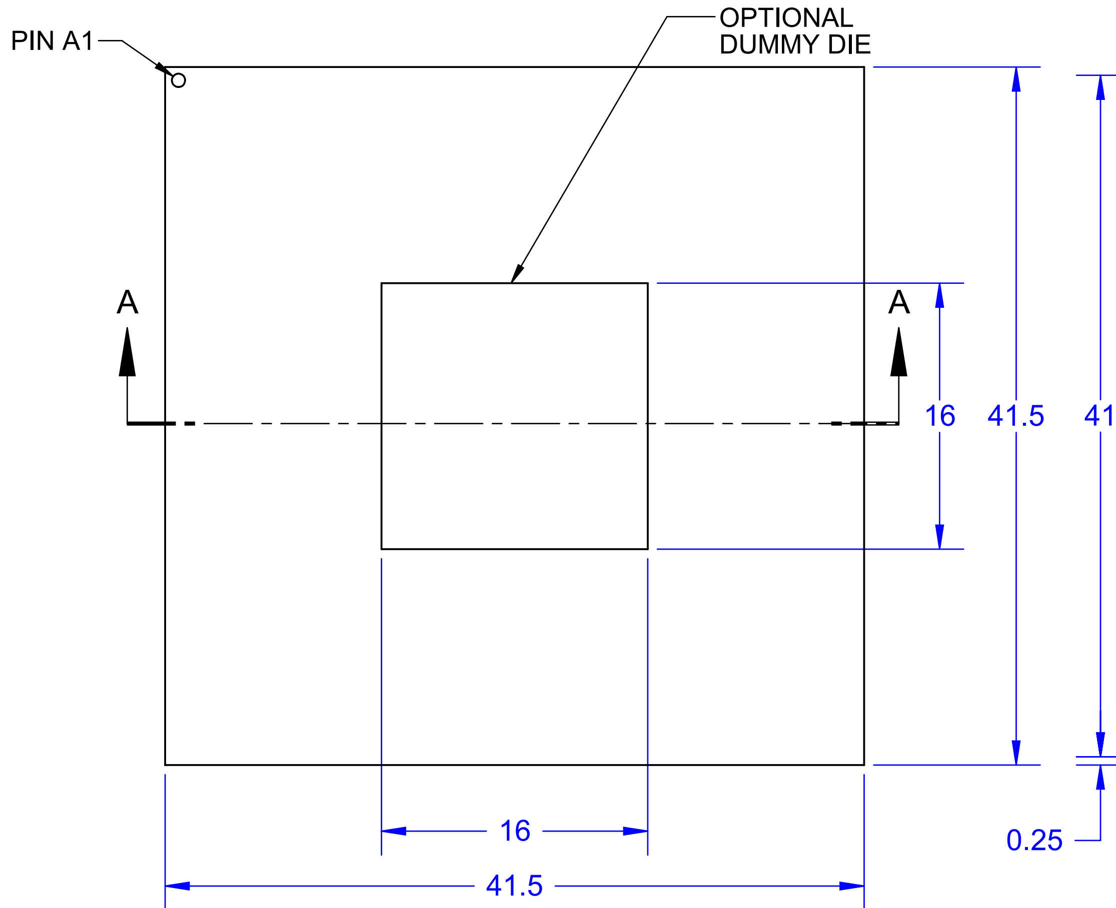
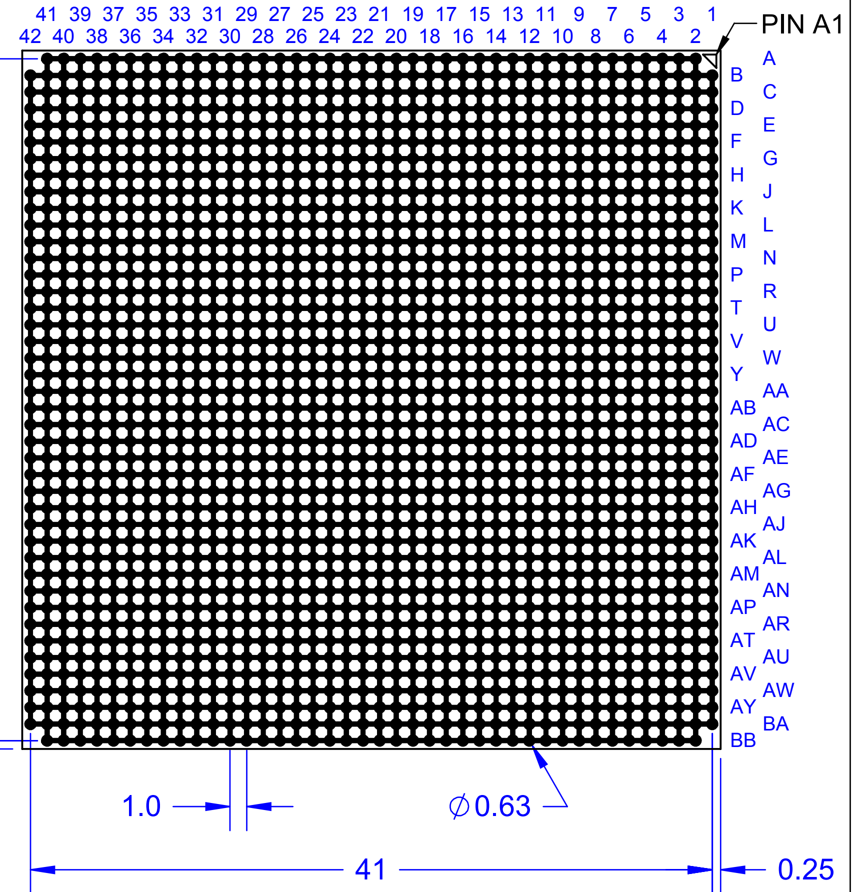
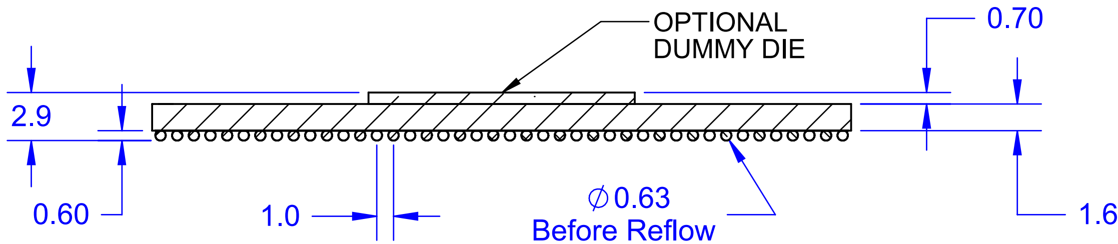
TOP VIEW



BALL VIEW



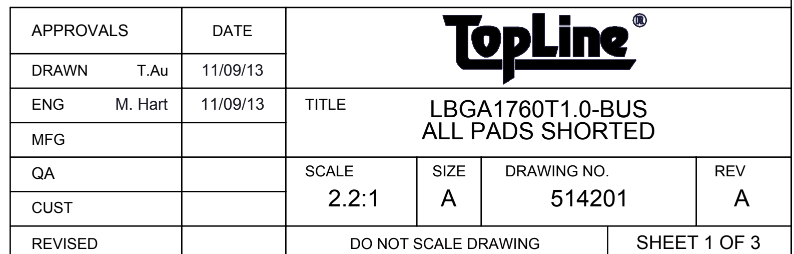


SECTION A-A

Notes: (Unless Otherwise Specified).
1) ALL DIMENSIONS ARE IN MM.
2) SOLDER BALL ALLOY: SEE PART NUMBER TABLE.
3) BALL DIAMETER (BEFORE REFLOW): 0.635mm (25 MIL).
4) SOLDER MASK DEFINED PAD OPENING: 0.508mm (20 MIL).
5) PAD Cu DIAMETER: 0.685mm (27 MIL).
6) SUBSTRATE MATERIAL: FR4 (ALTERNATE BT).
7) DUMMY DIE IS OPTIONAL.
8) DAISY CHAIN PATTERN (SEE PAGE 2).
9) MSL-3 RECOMMENDED BAKING 24 HOURS @ 125°C TO REMOVE MOISTURE PRIOR SOLDERING TO PC BOARD.

PART NUMBER TABLE

PART NUMBER	BALL ALLOY	Pb-Free	RoHS	Si DIE
LBGA1760T1.0C-BUS	Sn96.5/Ag3.0/Cu0.5	YES	YES	NO
LBGA1760T1.0C-BUS-D	Sn96.5/Ag3.0/Cu0.5	YES	YES	YES
LBGA1760T1.0-BUS	Sn63/Pb37	NO	NO	NO
LBGA1760T1.0-BUS-D	Sn63/Pb37	NO	NO	YES



APPROVALS		DATE
DRAWN	T.Au	11/09/13
ENG	M. Hart	11/09/13
MFG		
QA		
CUST		
REVISED		

TopLine®

TITLE: LBGA1760T1.0-BUS ALL PADS SHORTED

SCALE	SIZE	DRAWING NO.	REV
2.2:1	A	514201	A

DO NOT SCALE DRAWING

BALL VIEW

42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A
B
C
D
E
F
G
H
J
K
L
M
N
P
R
T
U
V
W
Y
AA
AB
AC
AD
AE
AF
AG
AH
AJ
AK
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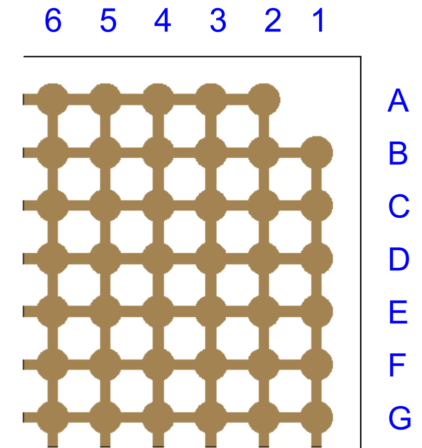
AY
BA
BB

DETAIL A



ALL BALLS
CONNECTED

Notes:
1) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE.
DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
2) PCB Cu BALL PAD DIAMETER 0.685mm (27 MIL).
3) PCB DAISY CHAIN TRACING LINE WIDTH 0.204mm (8 MIL).
4) SMD (SOLDER MASK DEFINED) PAD OPENING: 0.508mm (20 MIL).

TopLine®

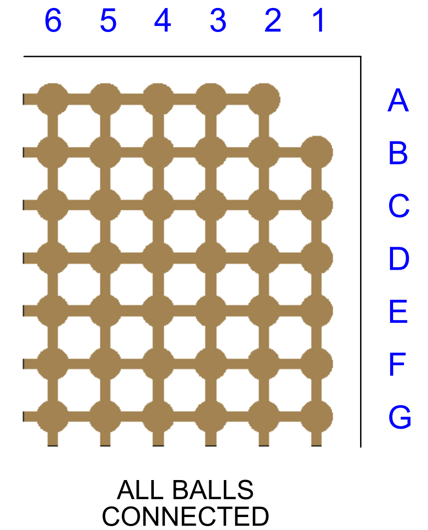
TITLE	LBGA1760T1.0-BUS ALL PADS SHORTED		
SCALE 3.6:1	SIZE A	DRAWING NO. 514201	REV A
DO NOT SCALE DRAWING		SHEET 2 OF 3	

BOTTOM SIDE (TOP X-RAY VIEW)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42

A B C D E F G H J K L M N P R T U V W Y AA AB AC AD AE AF AG AH AJ AK AL AM AN AP AR AT AU AV AW AY BA BB

DETAIL B



ALL BALLS CONNECTED

TopLine®

TITLE	LBGA1760T1.0-BUS ALL PADS SHORTED		
SCALE 3.6:1	SIZE A	DRAWING NO. 514201	REV A
DO NOT SCALE DRAWING		SHEET 3 OF 3	