

DWG	Column Part #	ϕW Column Diameter	*L Column Length	P Pitch	ϕA LGA PAD	Paste Stencil Foil Thickness	
900825	CC9010U08x25	0.20	0.65	0.50	0.25	3mil	75um
900928	CC9010U09x28	0.23	0.70	0.65	0.28	3mil	75um
901025	CC9010U10x25	0.25	0.635	0.75	0.31	4mil	100um
901030	CC9010U10x30	0.25	0.75	0.75	0.31	4mil	100um
901133	CC9010U11x33	0.28	0.85	0.80	0.35	4mil	100um
901235	CC9010U12x35	0.30	0.90	0.80	0.37	5mil	125um
901340	CC9010U13x40	0.33	1.00	0.80	0.41	5mil	125um
901447	CC9010U14x47	0.35	1.20	1.00	0.44	6mil	150um
901551	CC9010U15x51	0.38	1.30	1.00	0.48	6mil	150um
901655	CC9010U16x55	0.40	1.40	1.00	0.51	6mil	150um
901763	CC9010U17x63	0.43	1.60	1.00	0.56	8mil	200um
901870	CC9010U18x70	0.45	1.80	1.00	0.61	8mil	200um
902087	CC9010U20x87	0.50	2.21	1.00	0.80	8mil	200um
				1.27	0.86	8mil	200um
902099	CC9010U20x100	0.50	2.54	1.00	0.80	8mil	200um
				1.27	0.86	8mil	200um

* OTHER "L" COLUMN LENGTHS AVAILABLE (L_{MIN} 250% ϕW ~ L_{MAX} 500% ϕW).

Notes: (Unless Otherwise Specified).

- 1) DIMENSIONS IN mm UNLESS OTHERWISE STATED.
- 2) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
- 3) ϕA IS THE EXPOSED SOLDERABLE SURFACE OF LGA PAD.

APPROVALS	DATE	TopLine®			
DRAWN T.Au	02/27/14				
ENG M. Hart	02/27/14	TITLE CCGA SOLDER COLUMN			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		35:1	A	900001	A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 3
REVISED					

DIMENSION TABLE 2

DWG	Column Part #	ϕW Column Diameter	*L Column Length	P Pitch	ϕM PCB Mask Opening	SMD NSMD	ϕB PCB PAD	ϕA LGA PAD	ϕE	ϕF	G	H	Paste Stencil Th	Replaces Solder Ball	Device
900825	CC9010U08x25	0.20	0.65	0.50	0.25	SMD	0.35	0.25			0.250	0.353	3mil	$\phi 0.30$	PBGA
900928	CC9010U09x28	0.23	0.70	0.65	0.29	SMD	0.39	0.29			0.325	0.460	3mil	$\phi 0.35$	PBGA
901025	CC9010U10x25	0.25	0.635	0.75	0.31	SMD	0.42	0.31			0.375	0.530	4mil	$\phi 0.35$	PBGA
901030	CC9010U10x30	0.25	0.75	0.75	0.31	SMD	0.42	0.31			0.375	0.530	4mil	$\phi 0.35$	PBGA
901133	CC9010U11x33	0.28	0.85	0.80	0.35	SMD	0.45	0.35			0.400	0.565	4mil	$\phi 0.40$	PBGA
901235	CC9010U12x35	0.30	0.90	0.80	0.37	SMD	0.46	0.37			0.400	0.565	5mil	$\phi 0.45$	PBGA
901340	CC9010U13x40	0.33	1.00	0.80	0.41	SMD	0.51	0.41			0.400	0.565	5mil	$\phi 0.50$	PBGA
901447	CC9010U14x47	0.35	1.20	1.00	0.44	SMD	0.54	0.44	0.200	0.460	0.500	0.635	6mil	$\phi 0.50$	PBGA
901551	CC9010U15x51	0.38	1.30	1.00	0.48	SMD	0.58	0.48	0.200	0.460	0.500	0.635	6mil	$\phi 0.63$	PBGA
901655	CC9010U16x55	0.40	1.40	1.00	0.51	SMD	0.61	0.51	0.200	0.460	0.500	0.635	6mil	$\phi 0.63$	PBGA
901763	CC9010U17x63	0.43	1.60	1.00	0.56	SMD	0.66	0.56	0.200	0.460	0.500	0.635	8mil	$\phi 0.63$	PBGA
901870	CC9010U18x70	0.45	1.80	1.00	0.61	SMD	0.71	0.61	0.200	0.460	0.500	0.635	8mil	$\phi 0.63$	PBGA
902087	CC9010U20x87	0.50	2.21	1.00	0.80	NSMD	0.70	0.80	0.200	0.460	0.500	0.635	8mil	$\phi 0.63$	CCGA
				1.27	0.86	NSMD	0.75	0.86	0.305	0.560	0.635	0.898	8mil	$\phi 0.76$	CCGA
902099	CC9010U20x100	0.50	2.54	1.00	0.80	NSMD	0.70	0.80	0.200	0.460	0.500	0.635	8mil	$\phi 0.63$	CCGA
				1.27	0.86	NSMD	0.75	0.86	0.305	0.560	0.635	0.898	8mil	$\phi 0.76$	CCGA

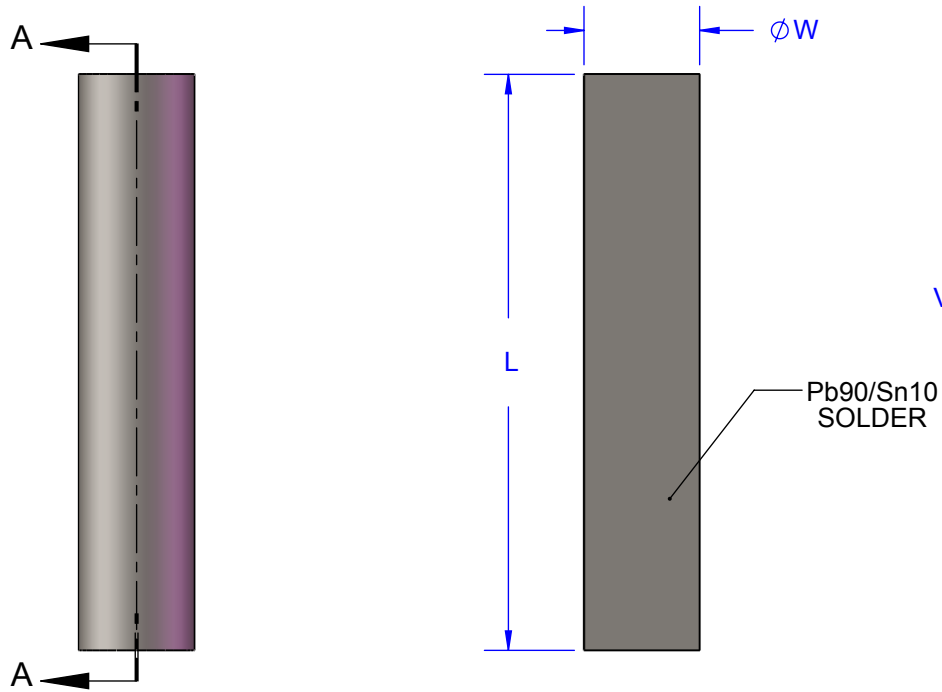
* OTHER "L" COLUMN LENGTHS AVAILABLE (L_{MIN} 250% ϕW ~ L_{MAX} 500% ϕW).

Notes: (Unless Otherwise Specified).

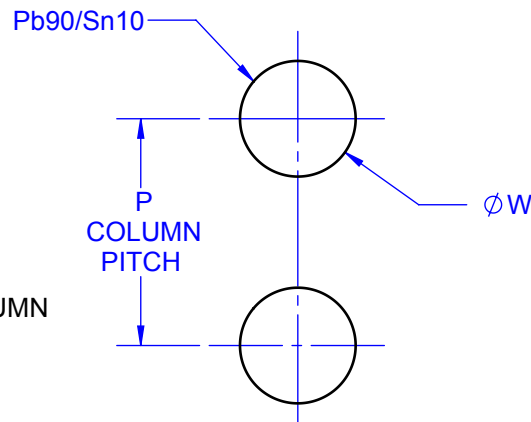
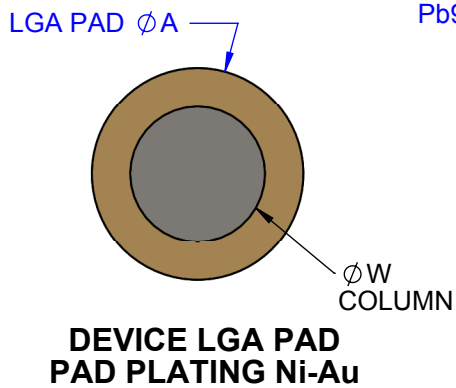
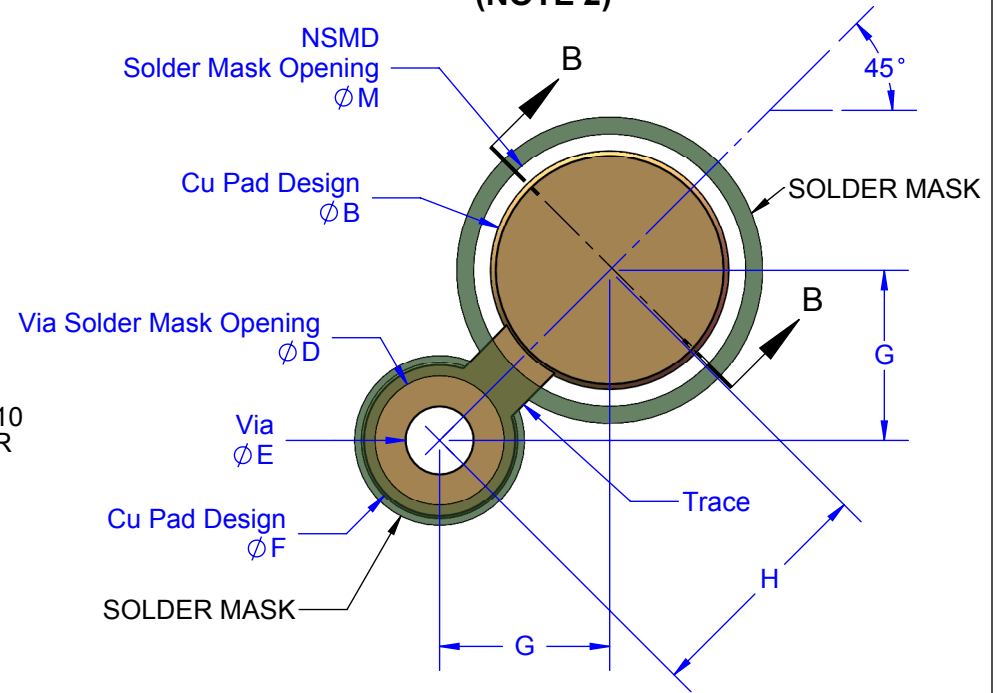
- 1) DIMENSIONS IN mm UNLESS OTHERWISE STATED.
- 2) PCB BOARD DIMENSIONS ARE PRESENTED ONLY AS A GUIDELINE. DESIGNERS SHOULD USE THEIR OWN EXPERIENCE WHEN DESIGNING PCB.
- 3) ϕA IS THE EXPOSED SOLDERABLE SURFACE OF LGA PAD.
- 4) DESIGN RULES: $\phi A > 124\% \phi W$ and $\phi B > 124\% \phi W$.

APPROVALS	DATE	TopLine®			
DRAWN T. Au	02/27/14				
ENG M. Hart	02/27/14	TITLE CG9010 MASTER CCGA SOLDER COLUMN			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		30:1	A	900001	A
CUST		DO NOT SCALE DRAWING			SHEET 2 OF 3
REVISED					

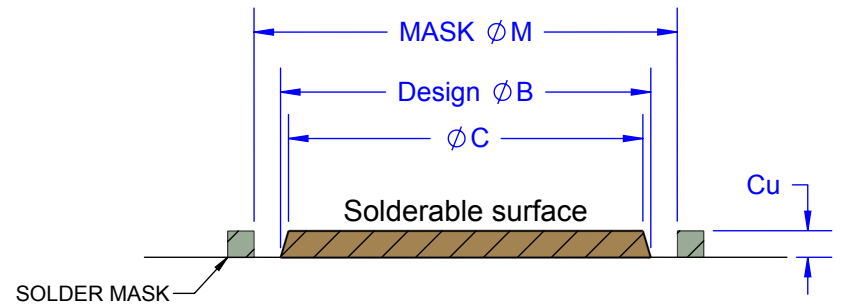
SECTION VIEW



PCB LAND PATTERN (NOTE 2)



Cu PAD SIDE VIEW PCB BOARD



Section B-B

Notes: (Unless Otherwise Specified).
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APPROVALS	DATE	TopLine®		
DRAWN T.Au	02/27/14			
ENG M. Hart	02/27/14	TITLE CG9010 MASTER CCGA SOLDER COLUMN		
MFG		SCALE 30:1	SIZE A	DRAWING NO. 900001
QA				REV A
CUST				
REVISED		DO NOT SCALE DRAWING		SHEET 3 OF 3