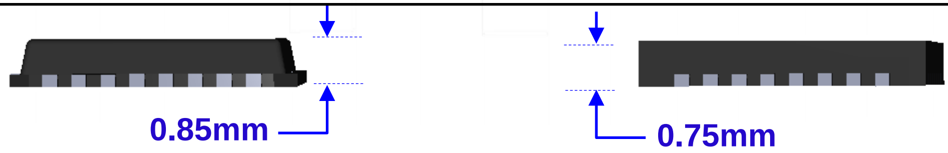
BILL OF MATERIALS (BOM)

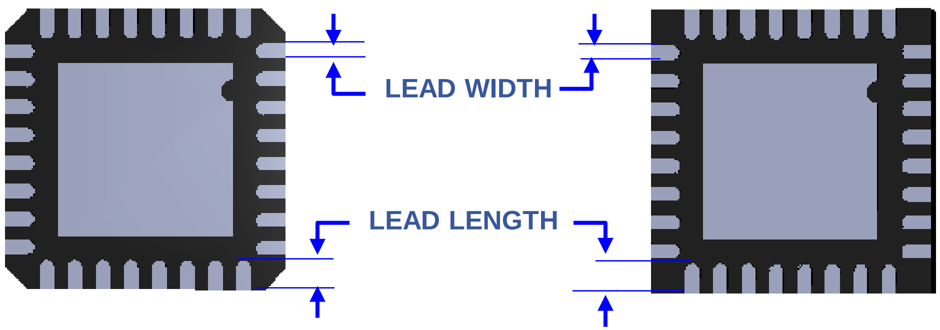
MATERIALS	FROM	TO	REMARKS
Die Attach Epoxy	Ablestik 8290	Ablestik 8290	Same
Wire	Au	Au	Same
Mold Compound	Sumitomo G700	Sumitomo G700	Same
Leadframe	C194	C194	Same

Package Outline Drawing (5x5mm)

PUNCH	SAWN	



Package Thickness Difference

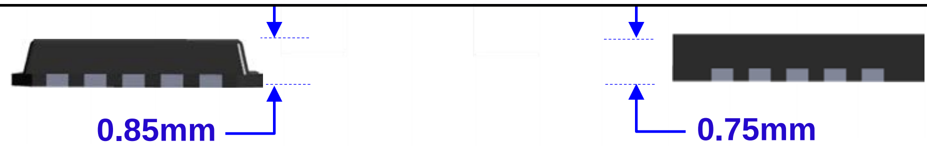


Exposed Pad, Lead Length and Lead Width dimensions remains within tolerance.

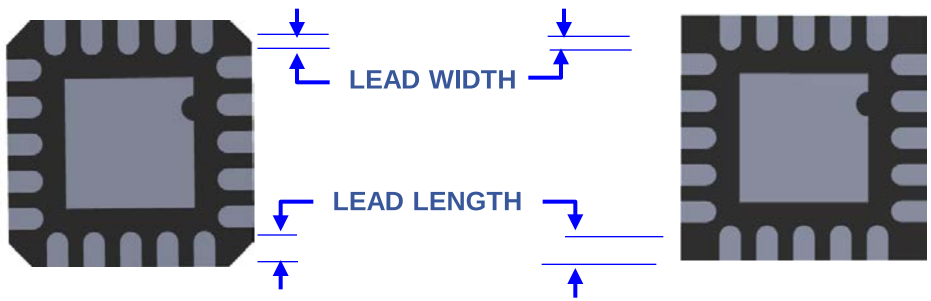
Body Size (mm)	Lead Count	FROM: Punch Type LFCSP				TO: Sawn Type LFCSP			
		POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)
5x5	32	CP 32-2	3.1 ± 0.15	0.40 ±0.10	0.25 +0.05 - 0.07	CP 32-7	3.1 ±0.15	0.40 ±0.10	0.25 +0.05 - 0.07

Package Dimensions (4x4mm)

PUNCH	SAWN



Package Thickness Difference



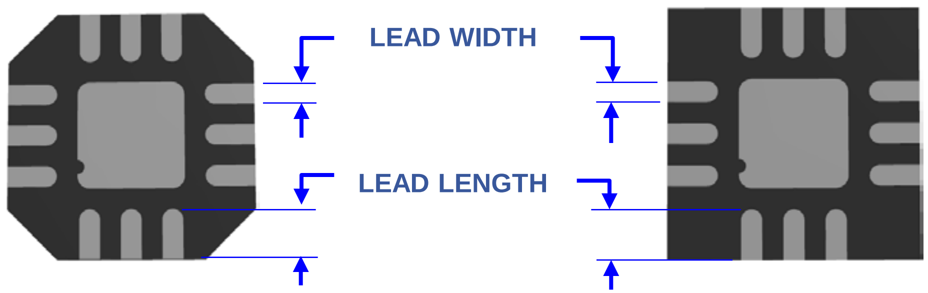
Exposed Pad, Lead Length and Lead Width dimensions remains within tolerance.

Body Size (mm)	Lead Count	Punch Type LFCSP				Sawn Type LFCSP			
		POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)
4x4	16	CP 16-4	2.1 ± 0.15	0.60 +0.15 - 0.10	0.30 ±0.05	CP 16-23	2.1 ± 0.15	0.60 ± 0.10	0.30 ±0.05
		CP 16-10	2.35 ± 0.15	0.40 ±0.10	0.30 ±0.05	CP 16-20	2.35 ±0.05	0.40 ±0.10	0.30 ±0.05
		CP 16-13	2.5 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 16-26	2.5 ±0.10	0.40 ±0.10	0.30 ±0.05
4x4	24	CP 24-3	2.5 ± 0.15	0.40 ±0.10	0.23 +0.07 - 0.05	CP 24-7	2.5 ± 0.15	0.40 ±0.10	0.25 +0.05 - 0.07

Package Dimensions (3x3mm)

PUNCH	SAWN	

Package Thickness Difference



Exposed Pad, Lead Length and Lead Width dimensions remains within tolerance.

Body Size (mm)	Lead Count	Punch Type LFCSP				Sawn Type LFCSP			
		POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)	POD Spec	E-Pad Size (mm SQ.)	Lead Length (mm)	Lead Width (mm)
3x3	12	CP 12-3	1.5 ± 0.15	0.60 +0.15 / - 0.10	0.23 +0.07 / - 0.05	CP 12-5	1.5 ± 0.15	0.40 ± 0.10	0.23 +0.07 / - 0.05
3x3	16	CP 16-2	1.3 ± 0.15	0.40 ±0.10	0.23 +0.07 / - 0.05	CP 16-21	1.3 ±0.15	0.40 ±0.10	0.23 +0.07 / - 0.05
		CP 16-3	1.5 ± 0.15	0.40 ±0.10	0.23 +0.07 / - 0.05	CP 16-27	1.5 +0.15 / - 0.05	0.40 ±0.10	0.25 +0.05 / - 0.05

Package Outline Drawing (POD) Conversion Details

FG_PART	Package Dimensions	LEADS	POD Punch	POD Sawn
AD8465WBCPZ-R7	3x3mm	12	CP-12-3	CP-12-5
ADA4853-3WYCPZ-R7	3x3mm	16	CP-16-3	CP-16-27
AD7879-1ACPZ-500R7	4x4mm	16	CP-16-10	CP-16-20
AD7879-1ACPZ-RL	4x4mm	16	CP-16-10	CP-16-20
AD7879-1WACPZ-RL	4x4mm	16	CP-16-10	CP-16-20
AD7879-1WACPZ-RL7	4x4mm	16	CP-16-10	CP-16-20
AD7879ACPZ-500R7	4x4mm	16	CP-16-10	CP-16-20
AD7879ACPZ-RL	4x4mm	16	CP-16-10	CP-16-20
AD7879WACPZ-R5	4x4mm	16	CP-16-10	CP-16-20
AD7879WACPZ-RL	4x4mm	16	CP-16-10	CP-16-20
AD85550002CPZR7	4x4mm	16	CP-16-10	CP-16-20
AD8556ACPZ-R2	4x4mm	16	CP-16-10	CP-16-20
AD8556ACPZ-REEL	4x4mm	16	CP-16-10	CP-16-20
AD8556ACPZ-REEL7	4x4mm	16	CP-16-10	CP-16-20
ADG1411WBCPZ-REEL	4x4mm	16	CP-16-13	CP-16-26
ADG1411YCPZ-REEL	4x4mm	16	CP-16-13	CP-16-26
ADG1411YCPZ-REEL7	4x4mm	16	CP-16-13	CP-16-26
AD8231ACPZ-R7	4x4mm	16	CP-16-4	CP-16-23
AD8231ACPZ-RL	4x4mm	16	CP-16-4	CP-16-23
AD8231WACPZ-RL	4x4mm	16	CP-16-4	CP-16-23

FG_PART	Package Dimensions	LEADS	POD Punch	POD Sawn
AD7147ACPZ-1500RL7	4x4mm	24	CP-24-3	CP-24-7
AD7147ACPZ-1REEL	4x4mm	24	CP-24-3	CP-24-7
AD7147ACPZ-500RL7	4x4mm	24	CP-24-3	CP-24-7
AD7147ACPZ-REEL	4x4mm	24	CP-24-3	CP-24-7
AD7147PACPZ-1500R7	4x4mm	24	CP-24-3	CP-24-7
AD7147PACPZ-1RL	4x4mm	24	CP-24-3	CP-24-7
AD7147PACPZ-500R7	4x4mm	24	CP-24-3	CP-24-7
AD7147PACPZ-RL	4x4mm	24	CP-24-3	CP-24-7
AD7147WPACPZ-1500R	4x4mm	24	CP-24-3	CP-24-7
AD7147WPACPZ-1RL	4x4mm	24	CP-24-3	CP-24-7
AD7147WPACPZ-500R7	4x4mm	24	CP-24-3	CP-24-7
AD7147WPACPZ-RL	4x4mm	24	CP-24-3	CP-24-7
AD7877WACPZ-REEL7	5x5mm	32	CP-32-2	CP-32-7
AD8145WYCPZ-R7	5x5mm	32	CP-32-2	CP-32-7
ADF4193WCCPZ-RL7	5x5mm	32	CP-32-2	CP-32-7
ADG2128WBCPZ-REEL7	5x5mm	32	CP-32-2	CP-32-7
ADG2188BCPZ-HS-RL7	5x5mm	32	CP-32-2	CP-32-7
ADG2188BCPZ-REEL7	5x5mm	32	CP-32-2	CP-32-7
ADG2188YCPZ-HS-RL7	5x5mm	32	CP-32-2	CP-32-7
ADG2188YCPZ-REEL7	5x5mm	32	CP-32-2	CP-32-7
ADW54012Z-0REEL7	5x5mm	32	CP-32-2	CP-32-7

Automotive Qualification Results Summary of 3x3, 4x4, 5x5 Sawn LFCSP Package at Amkor Philippines (ATP)

QUALIFICATION RESULTS			
TEST	SPECIFICATION	SAMPLE SIZE	RESULTS
Highly Accelerated Stress Test (HAST)*	JEDEC *JESD22-A110*	**9 x 77**	**Pass**
Temperature Cycle (TC)*	JEDEC *JESD22-A104*	**9 x 77**	**Pass**
Autoclave (AC)*	JEDEC *JESD22-A102*	**9 x 77**	**Pass**
High Temperature Storage Life (HTSL)	JEDEC *JESD22-A103*	**3 x 77**	**Pass**
Solder Heat Resistance (SHR)*	JEDEC/IPC *J-STD-020*	**9 x 11**	**Pass**

* These samples were subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: 1. Bake – 24 hours at 125ºC; 2. Soak – unbiased soak for 192 hours at 30ºC, 60%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260ºC. TC samples were subjected to wire-pull test after 500 cycles with results within specification limits.