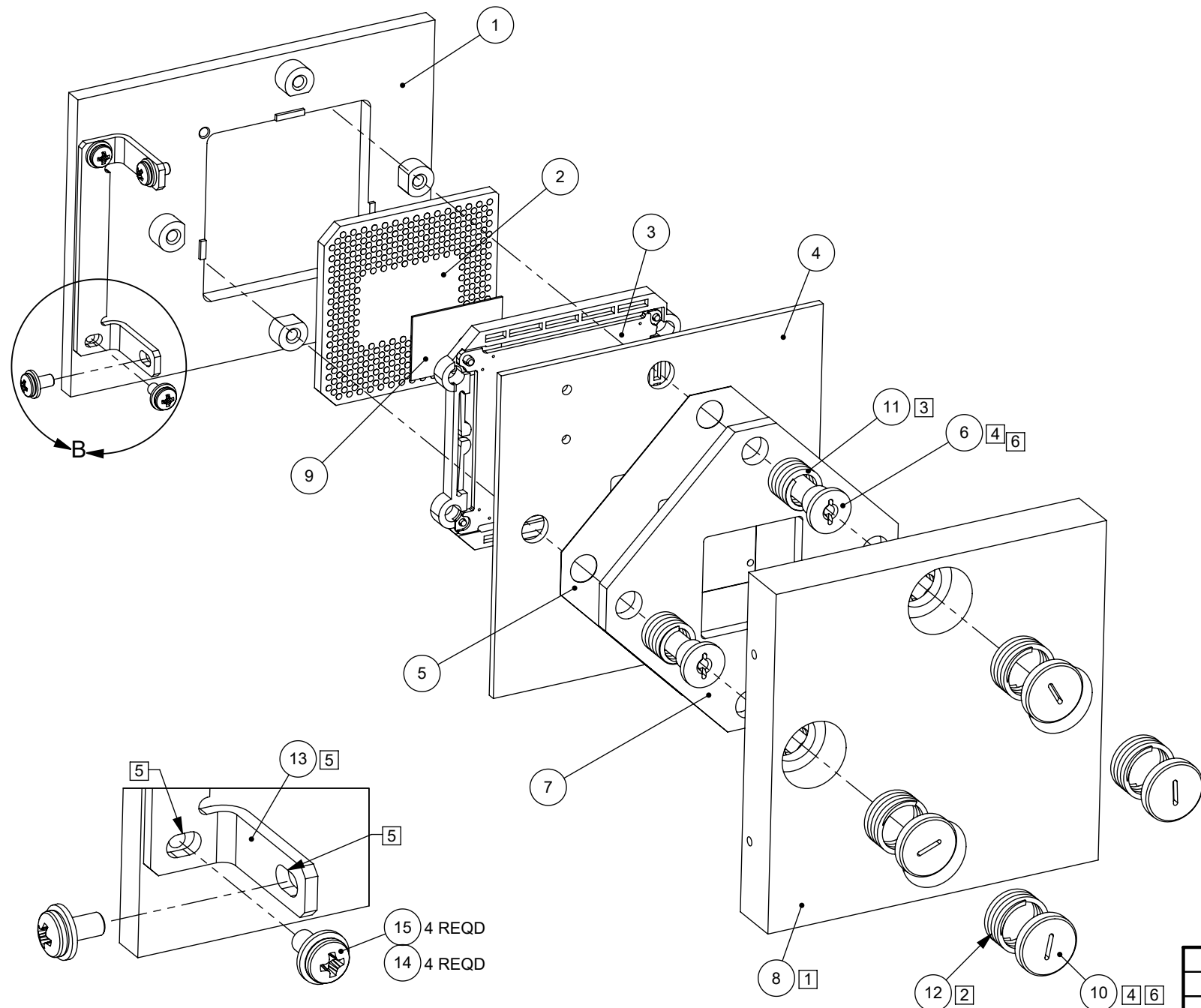
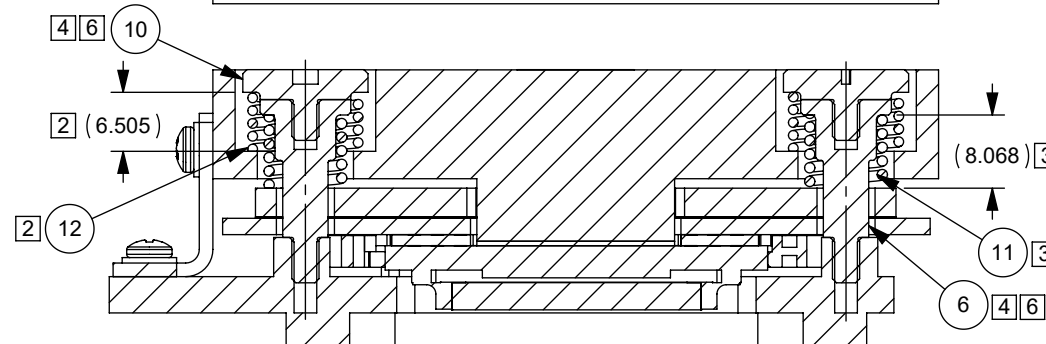
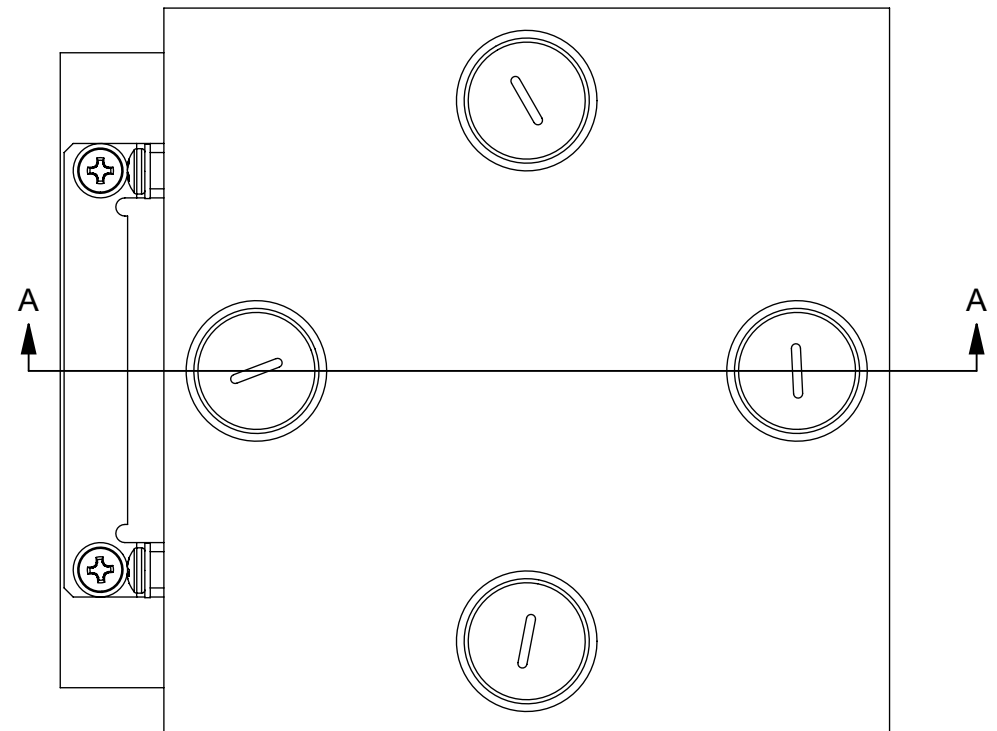


- 1 ITEM 8 ILLUSTRATES THE MOUNTING FEATURES FOR A HEAT EXCHANGER THAT COOLS THE DMD. THE FINNS AND HEAT EXCHANGER COOLING FEATURES AND SIZE NEED TO BE DESIGNED AS PART OF THE SYSTEM LEVEL COOLING SOLUTION TO ENSURE THE DMD SPECIFICATIONS ARE MAINTAINED AT ALL TIMES
- 2 CRITICAL GAP FOR COIL SPRING DESIGN TO CONTROL LOADS ON THE DMD THERMAL INTERFACE AREA. THE SIZE OF THE GAP WILL VARY DEPENDING ON PART TOLERANCES AND SPRING PROPERTIES. GAP SIZE SHOULD BE EVALUATED FURTHER IF NOMINAL SIZE OF GAP, TOLERANCES OF THE PARTS, OR SPRING PROPERTIES CHANGE TO ENSURE MOUNTING LOADS ON THE DMD ARE WITHIN SPECIFICATIONS.
- 3 CRITICAL GAP FOR COIL SPRING DESIGN TO CONTROL LOADS ON THE DMD ELECTRICAL INTERFACE AREA. THE SIZE OF THE GAP WILL VARY DEPENDING ON PART TOLERANCES AND SPRING PROPERTIES. GAP SIZE SHOULD BE EVALUATED FURTHER IF NOMINAL SIZE OF GAP, TOLERANCES OF THE PARTS, OR SPRING PROPERTIES CHANGE TO ENSURE MOUNTING LOADS ON THE DMD ARE WITHIN SPECIFICATIONS.
- 4 WHEN TIGHTENING SCREWS (ITEMS 6 AND 10) ENSURE CLAMPING FORCES ARE UNIFORMLY APPLIED TO THE DMD. TO PREVENT NON-UNIFORM FORCES BEING APPLIED TO THE DMD AND TILTING OF THE DMD DURING ASSEMBLY IT IS RECOMMENDED A FIXTURE BE USED TO CLAMP THE PARTS TOGETHER WHILE THE SCREWS ARE TIGHTENED, OR TORQUE SEQUENCE AND PARTIAL TIGHTENING OF THE SCREWS (MULTIPLE TIMES) BE DONE. THE SPRINGS CONTROL THE LOADS APPLIED AND SIMPLIFY ASSEMBLY BY PROVIDING MORE UNIFORMLY APPLIED FORCES.
- 5 THE PURPOSE OF THE BRACKET IS TO ILLUSTRATE A CONCEPT TO PROVIDE ADDITIONAL SUPPORT TO THE HEAT SINK/EXCHANGER WITHOUT APPLYING ADDITIONAL FORCES TO THE DMD. THE SLOTS ABSORB THE PART AND ASSEMBLY TOLERANCES TO HELP ELIMINATE ADDITIONAL FORCES BEING APPLIED. THE SPECIFIC GEOMETRY OF THE BRACKET AND WHERE ATTACHED DEPENDS ON THE SPECIFIC GEOMETRY OF THE SYSTEM IN WHICH IS IMPLEMENTED. ADDITIONAL BRACKETS MAYBE NEEDED TO PROVIDE FULL SUPPORT.
- 6 DESIGN ALLOWS FOR ELECTRICAL CONNECTION TO BE SECURED BEFORE AND INDEPENDANT OF HEAT EXCHANGER ATTACHMENT.




THIRD ANGLE
PROJECTION



4	15		M2.5 X .45 PAN HEAD SCREW	
4	14		M2.5 WASHER	
1	13	2518335	BRACKET, HEAT SINK/EXCHANGER SUPPORT	
4	12	LEE-MS24585-355-SPRING	COIL SPRING (LEE MS24585-355)	
4	11	LEE-MS24585-1272-SPRING	COIL SPRING (LEE MS24585-1272)	
4	10	2518192	SCREW, SHOULDER, CAP	
1	9	2515014	THERMAL PAD	
1	8	2518185	HEAT EXCHANGER CONCEPT, 335 INTERPOSER	
1	7	2518188	CLAMP, PCB, .9 TYPE-A DMD 335	
4	6	2518191	SCREW, SHOULDER, BASE	
1	5	2518189	INSULATOR, PCB, .9 TYPE-A DMD 335	
1	4	2518186	PCB, DMD, 335 INTERPOSER	
1	3	2505027	INTERPOSER, 335 CONTACT .9 TYPE-A	
1	2		DMD, .9 CERAMIC TYPE-A	
1	1	2518187	INTERFACE, .9 TYPE-A DMD 335	
QTY	ITEM	PART NUMBER	DESCRIPTION	Notes

[illegible]

		<p>UNLESS OTHERWISE SPECIFIED</p> <ul style="list-style-type: none"> ● DIMENSIONS ARE IN MILLIMETERS ● TOLERANCES: ANGLES $\pm 1^\circ$ 2 PLACE DECIMALS ± 0.25 1 PLACE DECIMALS ± 0.50 ● DIMENSIONAL LIMITS APPLY BEFORE PROCESSES ● INTERPRET DIMENSIONS IN ACCORDANCE WITH ASME Y14.5M-1994 ● REMOVE ALL BURRS AND SHARP EDGES ● PARENTHETICAL INFO FOR REF ONLY 	<p>DWN J. MCKINLEY</p> <p>DATE 3/11/2022</p> <p>Engr</p> <p>CQE/QA</p> <p>CM</p> <p>Apprvd</p>	 <p>TEXAS INSTRUMENTS</p> <p>ASSEMBLY, MOUNTING CONCEPT, .9 TYPE-A DMD 355 PADS</p>
NONE	0314RD		<p>SIZE B</p> <p>DWG NO 2518184</p> <p>SCALE 1:5</p>	<p>RE A</p> <p>SHEET 1 OF 2</p>
NEXT ASSY	USED ON			
APPLICATION				

8	7	6	5	4	3	DWG NO 2518184-Mtg-Assy	SH 2	1		
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<div>TEXAS INSTRUMENTS</div>						DWN J. McKINLEY	DATE 3/11/2022	SIZE B	DRAWING NO 2518184-Mtg-Assy	REV A
						SCALE 2:1		SHEET 2 OF 2		
8	7	6	5	4	3	2	1			