

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
 © COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
	A	RELEASE FOR PRODUCTION	07MAY2018	RS MK

ABSOLUTE MAXIMUM RATINGS	SYMBOL	MIN	MAX	UNIT
STORAGE TEMPERATURE	T _{stg}	-40	85	°C
POWER SUPPLY INPUT VOLTAGE	V _{dd}	3.1	3.5	VDC
TOTAL SYSTEM CURRENT DRAW	I _d	x	10	mA

ELECTRICAL CHARACTERISTICS	MIN	MAX	UNIT
ANALOG AUDIO OUTPUT SENSITIVITY	-25	-19	dBV
ANALOG AUDIO OUTPUT FREQ RANGE	100	10k	Hz

ENVIRONMENTAL CHARACTERISTICS	MIN	MAX	UNIT
OPERATING TEMPERATURE	-5	50	°C
RELATIVE HUMIDITY OPERATING, NON-CONDENSING ENVIRONMENT	5	95	%

ITEM: SENSOR	SENSOR PERFORMANCE
1: TEMPERATURE	-5°C TO +50°C ±0.3°C ACCURACY, 1 SECOND ACQUISITION RATE
2: RELATIVE HUMIDITY	5% TO 95% RH, 2% ACCURACY, 1 SECOND ACQUISITION RATE
3: MOTION	INTERRUPT DRIVEN, RESPONSE <0.5 SECS.
4: AMBIENT LIGHT LEVELS	1 SECOND ACQUISITION RATE
5: MICROPHONE	INTERRUPT DRIVEN, RESPONSE <0.5 SECS.

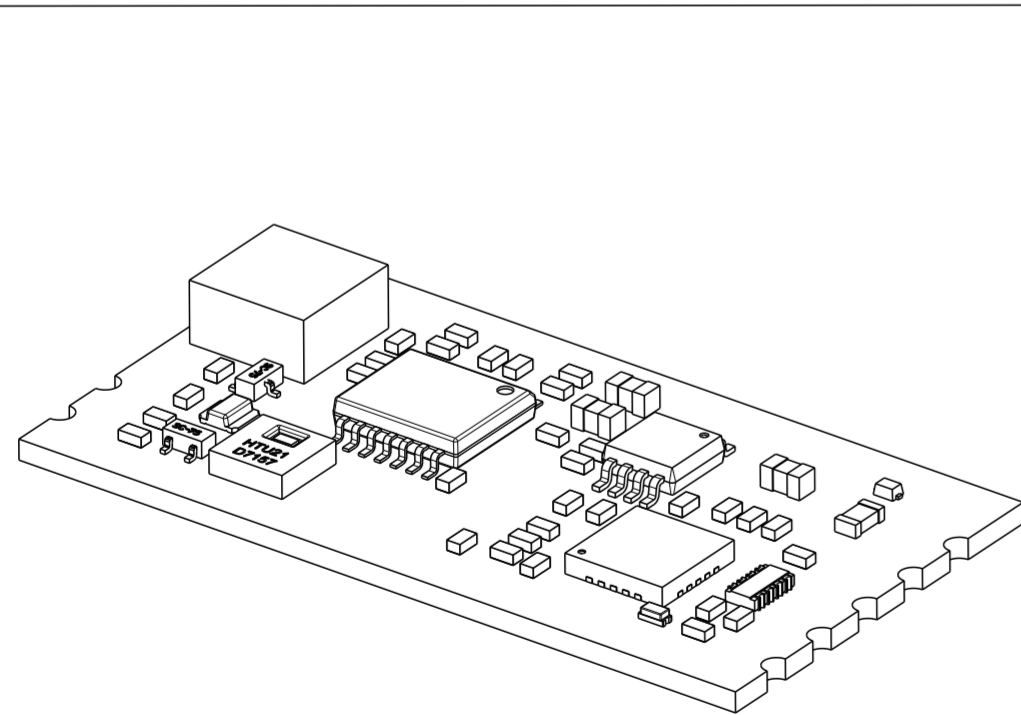
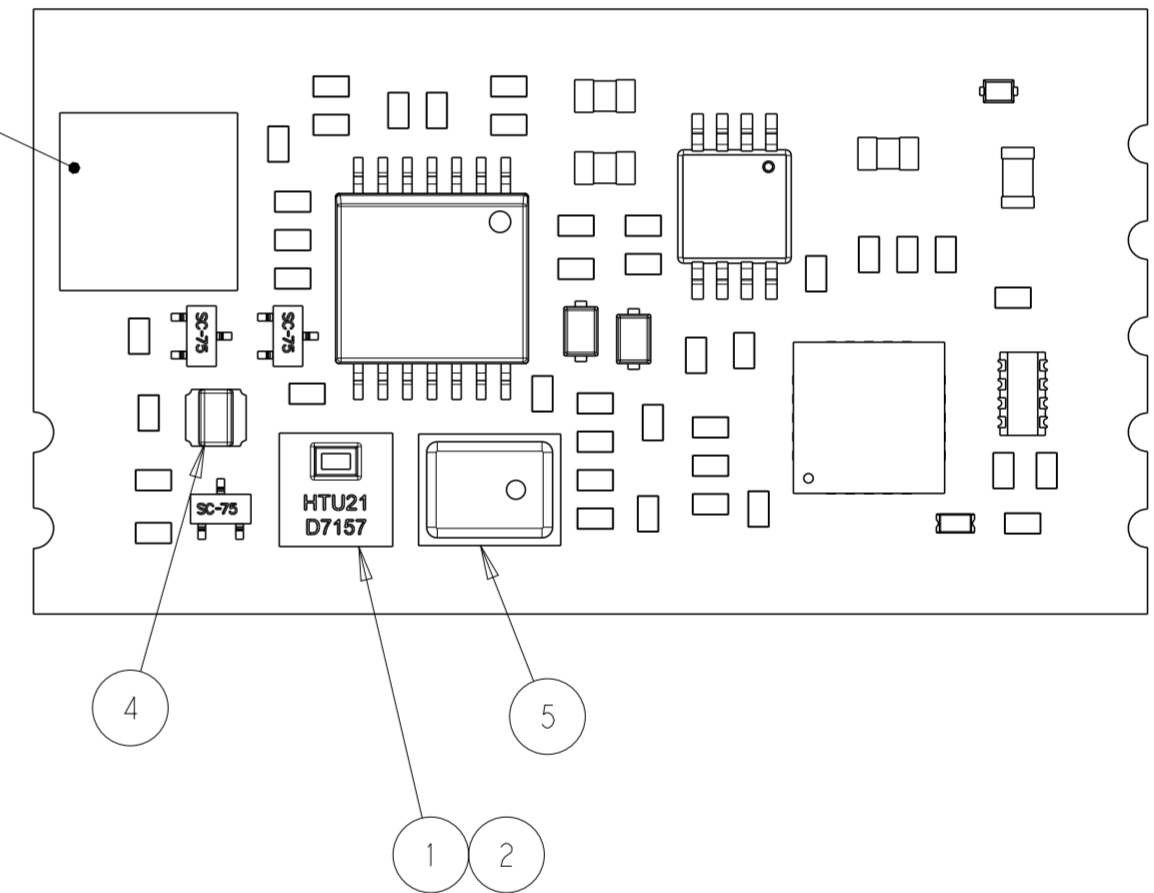
NOTES:

1. THIS PRODUCT HAS NOT COMPLETED VALIDATION TESTING.
2. MUST COMPLY WITH DIRECTIVE 2002/95/EC (ROHS).
3. SEPARATE LENS IS AVAILABLE UNDER TE P/N: 2317697-1.

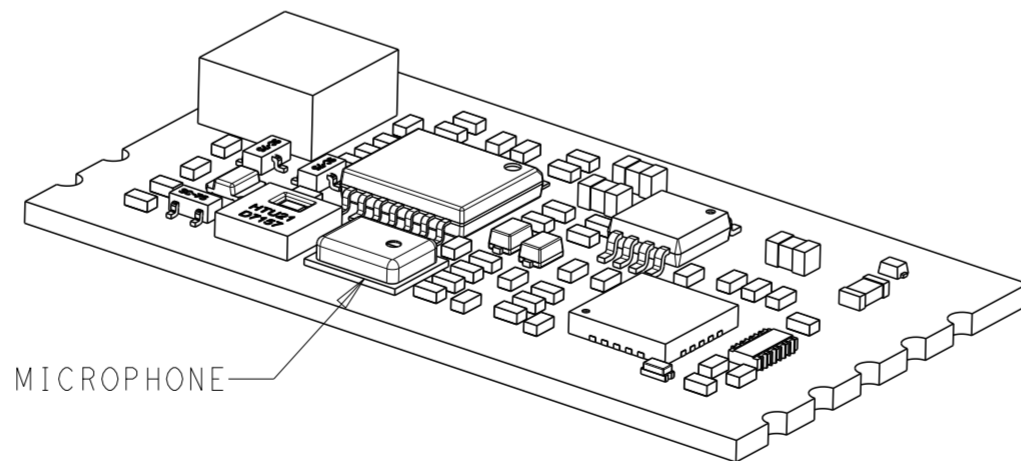
3

3

3



2316851-1 SHOWN



MICROPHONE

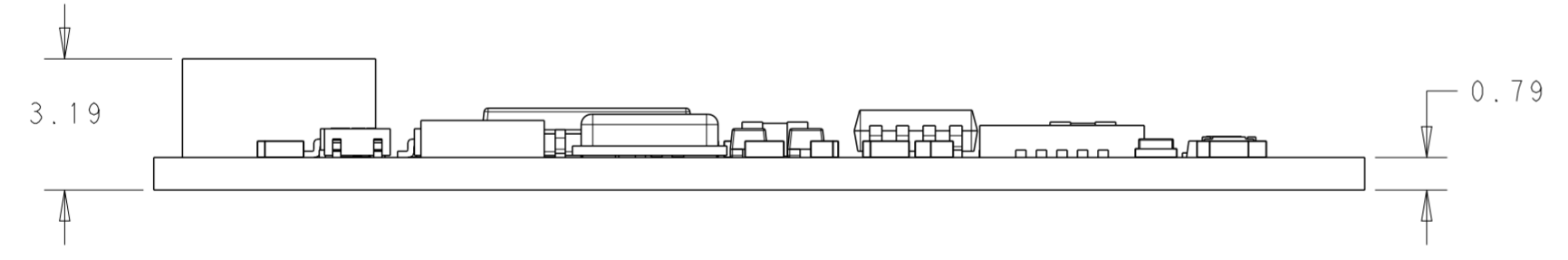
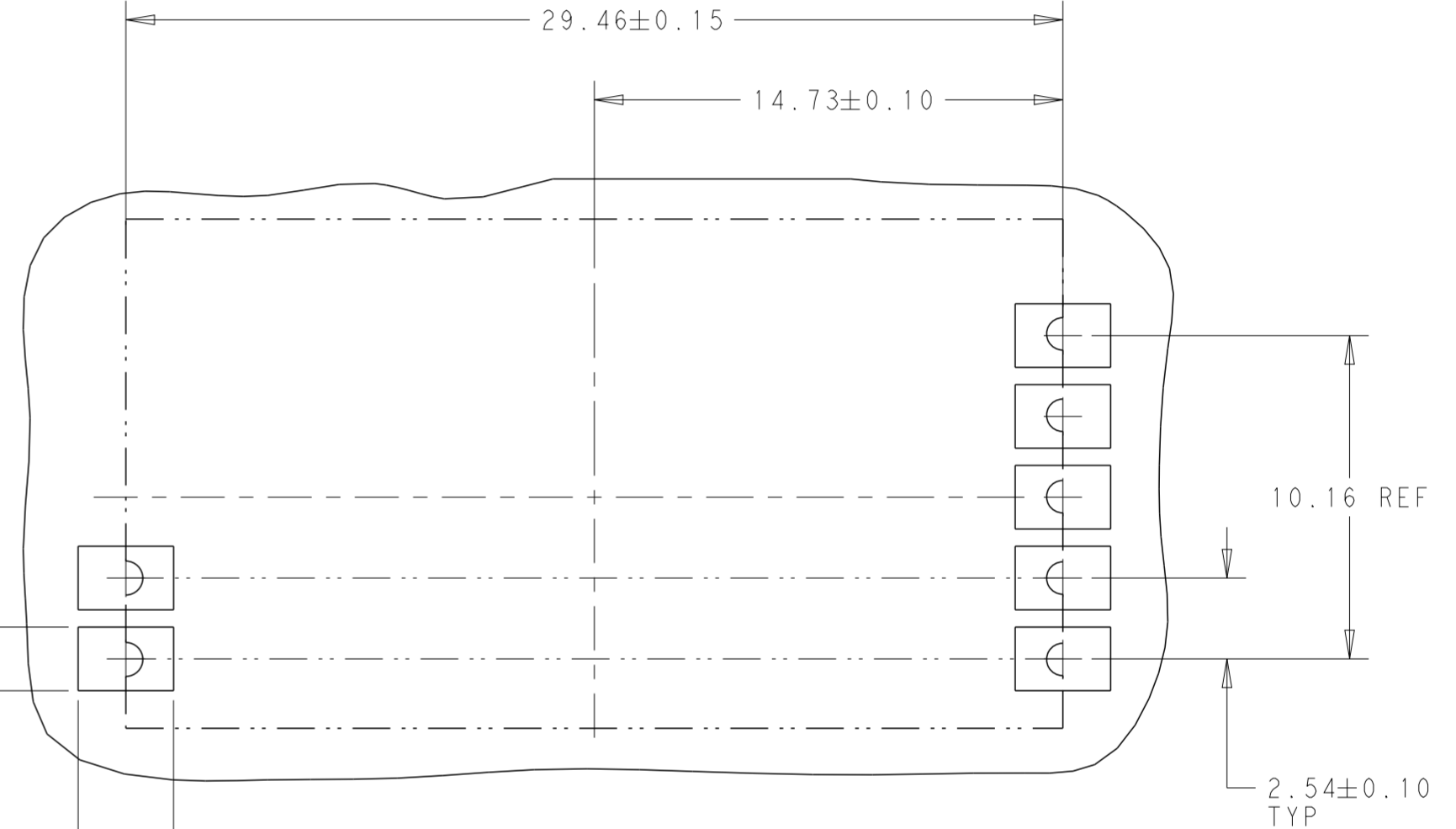
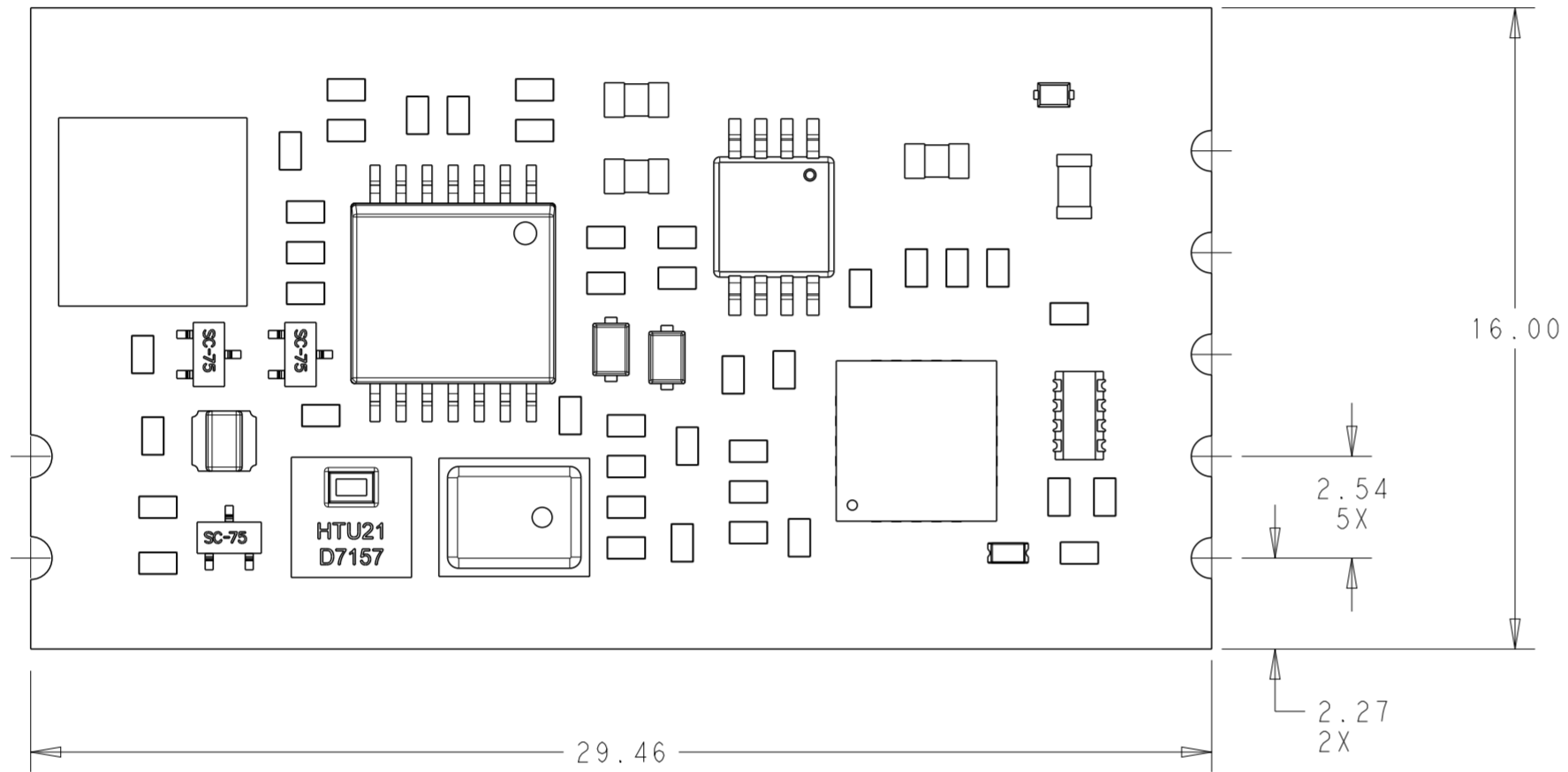
2316851-2 SHOWN

w/MICROPHONE	A	2316851-2
w/o MICROPHONE	A	2316851-1
COMMENTS	REV	PART NO.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J. SHAFFER 16 JUN 2017	TE Connectivity	
		CHK C. GINGRICH 16 JUN 2017		
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME AMBIMATE, MSM4 SENSOR MODULE, CASTELLATION
		0 PLC ±	1 PLC ±0.4	PRODUCT SPEC 108-133092
		2 PLC ±0.25	3 PLC ±	APPLICATION SPEC 114-133092
		4 PLC ±	ANGLES ±	SIZE A2
MATERIAL -		FINISH -	WEIGHT -	CAGE CODE -
				DRAWING NO. C-2316851
				RESTRICTED TO -
				SCALE 3:1 SHEET 1 OF 2 REV A
				CUSTOMER DRAWING

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
 © COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

REVISIONS				
P	LTR	DESCRIPTION	DATE	APVD
-	-	SEE SHEET 1	-	-



SUGGESTED PCB OUTLINE

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN J. SHAFFER 16 JUN 2017	TE Connectivity	
DIMENSIONS: mm		CHK C. GINGRICH 16 JUN 2017		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD -	NAME AMBIMATE, MSM4 SENSOR MODULE, CASTELLATION	
0 PLC ±	1 PLC ±0.4	PRODUCT SPEC 108-133092	SIZE A2	CAGE CODE -
2 PLC ±0.25	3 PLC ±	APPLICATION SPEC 114-133092	DRAWING NO C-2316851	RESTRICTED TO -
4 PLC ±	ANGLES ±	WEIGHT -	SCALE 3:1	SHEET 2 OF 2
MATERIAL -	FINISH -	CUSTOMER DRAWING	REV A	