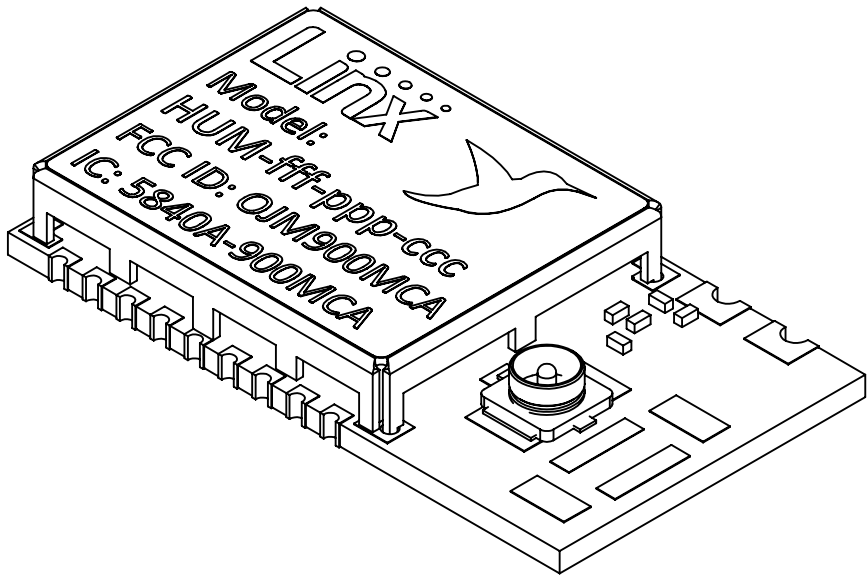
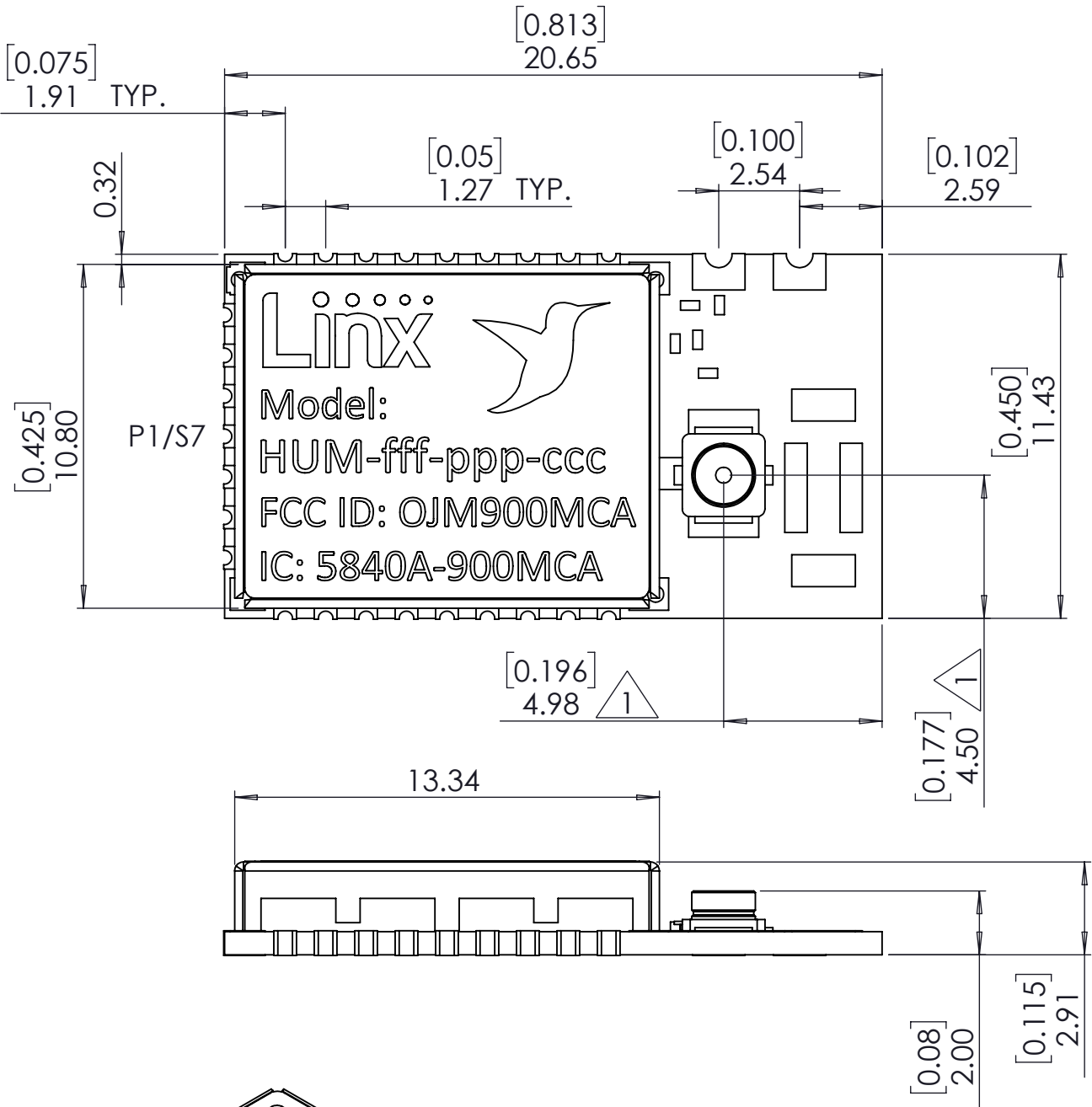


REV	DESCRIPTION	DATE	DWN	APVD
A	CUSTOMER DRAWING RELEASE	10/17/2023	JH	CM

DWG NO
HUM-FFF-PPP-CCC

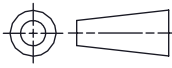
THIS DRAWING IS A CONTROLLED DOCUMENT



- ALL DIMENSIONS ARE IN MM [INCHES].
- ALL MATERIALS PRODUCT AND PROCESSES MUST MEET REQUIREMENT OF TE CONNECTIVITY ENVIRONMENTAL STANDARD TEC-138-702 CONTAINS NO BANNED OR RESTRICTED SUBSTANCES.
- NO REACH SVHC SHALL BE CONTAINED ABOVE THE TRESHOLD AS DEFINED IN REACH SVHC COMPLIANCE DEFINITION IN ANNEX "A" OF TEC-138-702.
- ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. SEE DATA SHEET FOR COMPLETE PROGRAMMING, ASSIGNMENT, INTEGRATION AND PROCESSING DETAILS
- MARKING PERMINANT USING KAPTON HIGH TEMPERATURE LABELS.
 - "PPP" SHALL BE POIDUCT TYPE AS SHOWN ON LAST 3 DIGITS OF PART NUMBER.
 - "FFF" SHALL INDICATE FREQUENCY OF MODULE PROGRAMMING.
 - "CCC" SHALL INDICATE THE INTERFACE CAS FOR CASTELLATION AND UFL FOR U.FL INTERFACE AS SHOWN 
- REFLOW CAPABLE. SEE SHEET 2 FOR PROCESSING DETAILS
- PRODUCT PROTECTED DURING SHIPMENT USING STACKED TRAYS OF 128 PC

PART NUMBER	FREQUENCY	INTERFACE
HUM-868-PRC-CAS	868MHz	CASTELLATION
HUM-868-PRC-UFL	868MHz	U.FL / MHF1
HUM-868-PRO-CAS	868MHz	CASTELLATION
HUM-868-PRO-UFL	868MHz	U.FL / MHF1
HUM-900-PRC-CAS	900MHz	CASTELLATION
HUM-900-PRC-UFL	900MHz	U.FL / MHF1
HUM-900-PRO-CAS	900MHz	CASTELLATION
HUM-900-PRO-UFL	900MHz	U.FL / MHF1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm	TOLERANCES UNLESS OTHERWISE SPECIFIED:
	0 PLC ± 0.5 1 PLC ± 0.25 2 PLC ± 0.13 3 PLC 4 PLC ANGLES ± 30'

MATERIAL FINISH

DWN JHAGER 10/17/23

CHK -

APVD CMURPHY 10/17/23

PRODUCT SPEC -

APPLICATION SPEC -

WEIGHT g

CUSTOMER DRAWING



TE Connectivity

HUMMINGBIRD TRANSIEVER MODULE TAB FREQ. INTRCONNECT

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A3	00779	© HUM-FFF-PPP-CCC	-

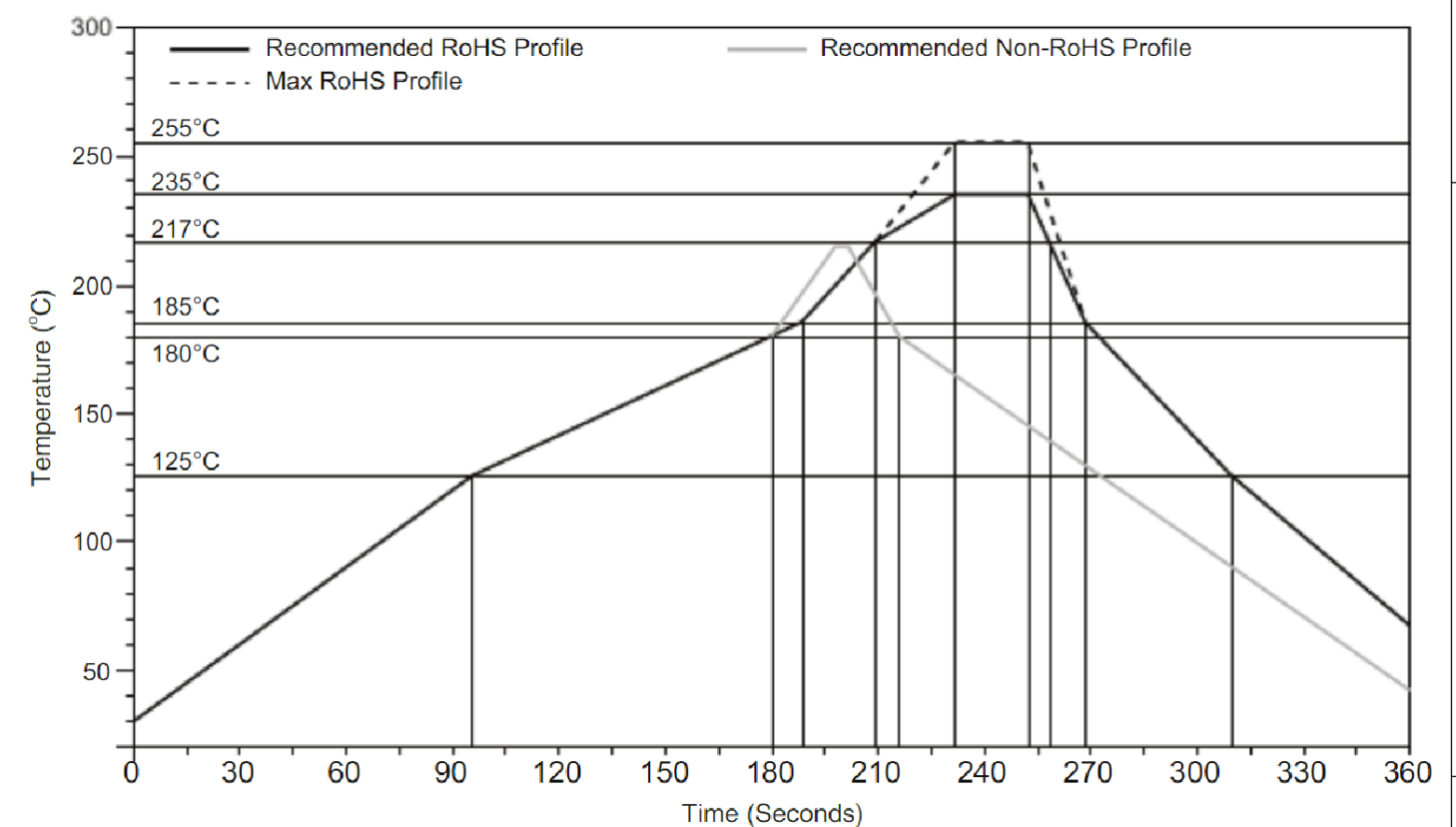
SCALE 5:1 SHEET 1 OF 2 REV A

REFLOW NOTES FOR AUTOMATED ASSEMBLY:

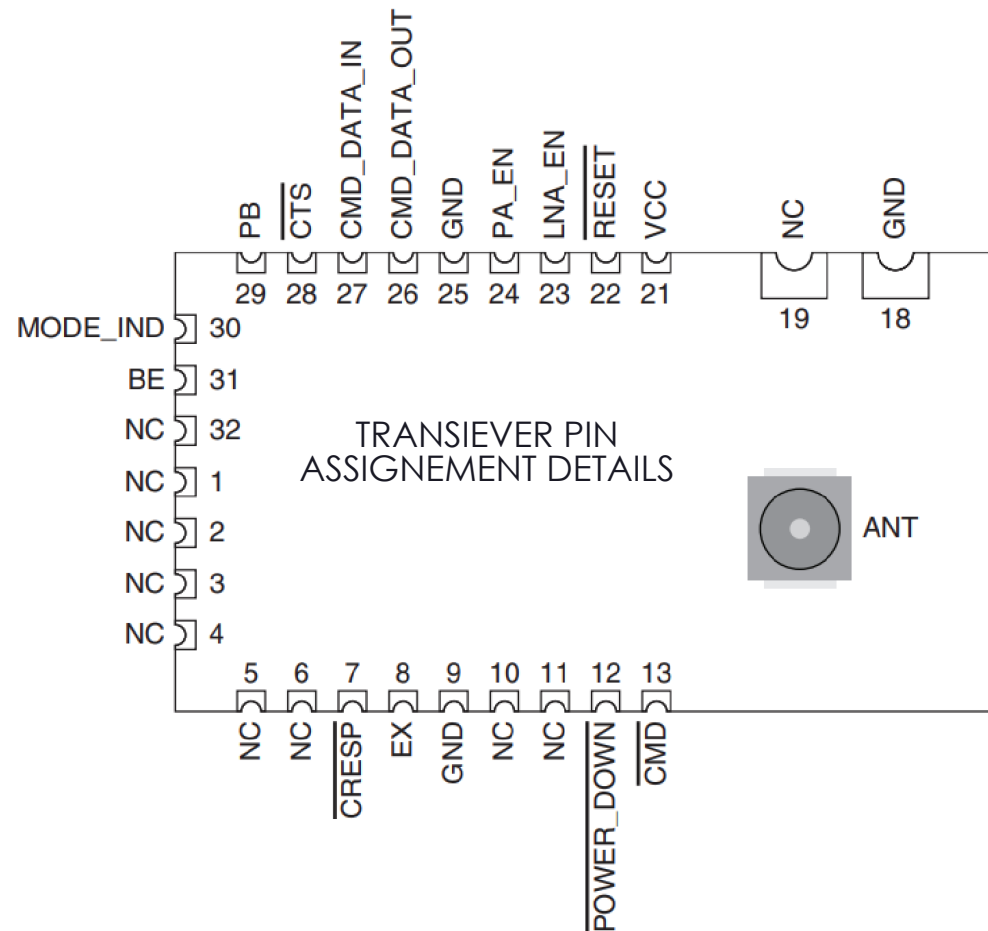
For high-volume assembly, the modules are generally auto-placed. The modules have been designed to maintain compatibility with reflow processing techniques; however, due to their hybrid nature, certain aspects of the assembly process are far more critical than for other component types. Following are brief discussions of the three primary areas where caution must be observed.

The single most critical stage in the automated assembly process is the reflow stage. The reflow profile should not be exceeded.

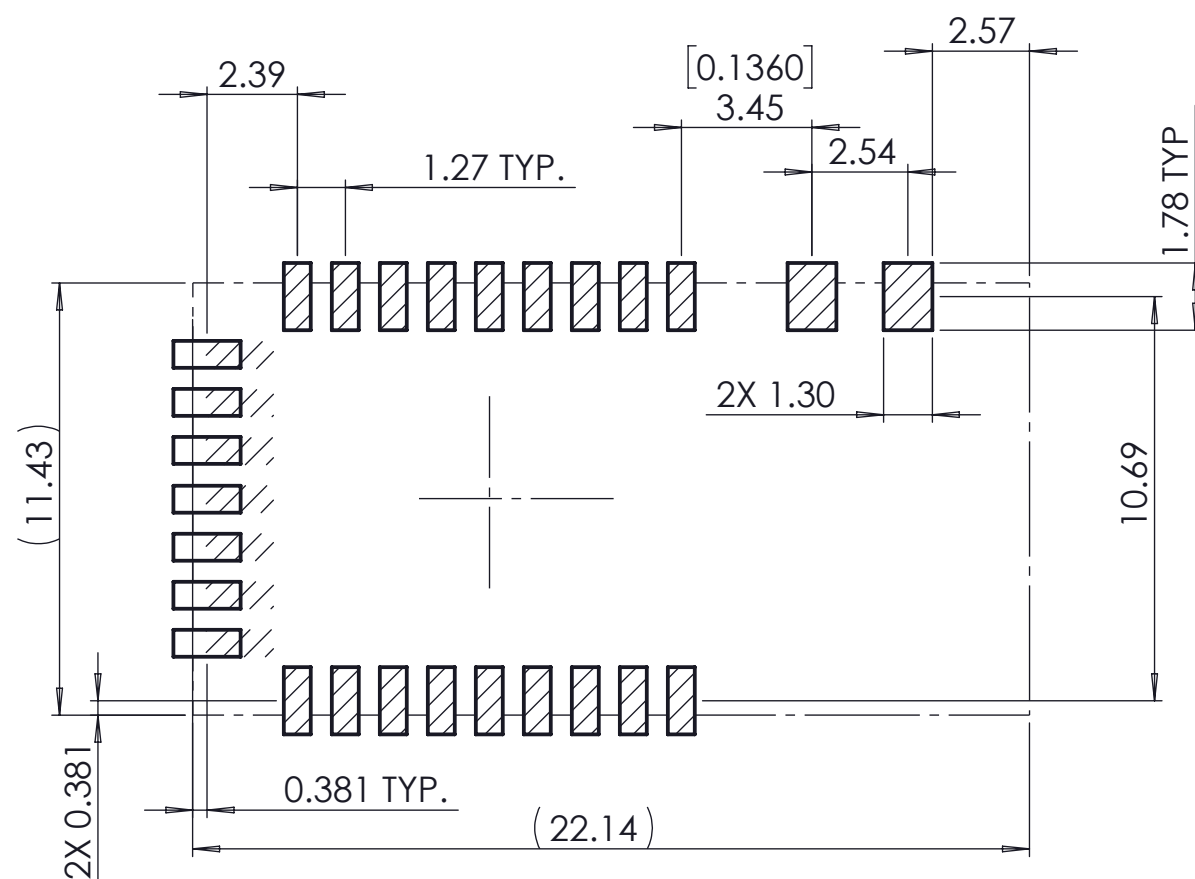
Pay careful attention to the oven's profile to ensure that it meets the requirements necessary to successfully reflow all components while still remaining within the limits mandated by the modules.

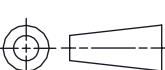


TRANSIEVER PIN ASSIGNMENT DETAILS



RECOMMENDED PCB LAYOUT



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN JHAGER	10/17/23	 TE Connectivity						
		CHK -								
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		HUMMINGBIRD TRANSIEVER MODULE TAB FREQ. INTRCONNECT						
		0 PLC 1 PLC 2 PLC 3 PLC 4 PLC ANGLES						SEE SHEET 1 FOR DETAILS		
MATERIAL		FINISH		APVD CMURPHY	10/17/23					
				PRODUCT SPEC						
				-						
				APPLICATION SPEC						
				-						
				WEIGHT	g	SIZE A3	CAGE CODE 00779	DRAWING NO C-HUM-FFF-PPP-CCC	RESTRICTED TO -	
				CUSTOMER DRAWING				SCALE 5:1	SHEET 2 OF 2	REV A