

Customer Information Sheet

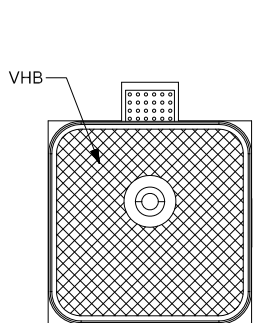
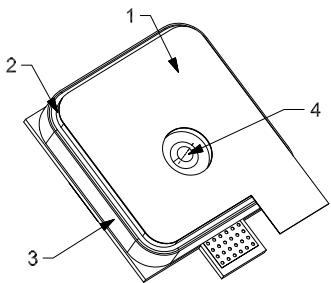
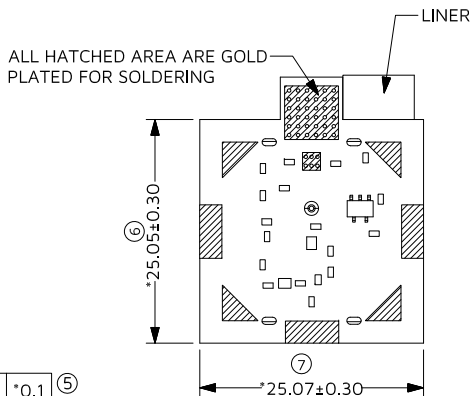
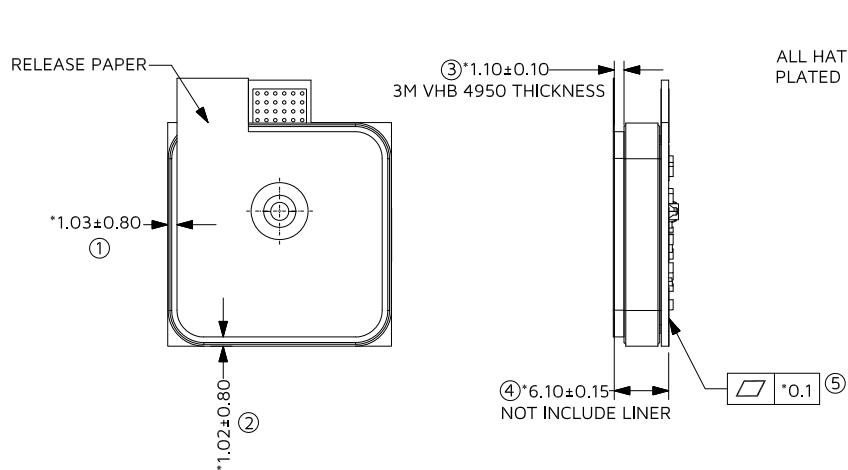
IF IN DOUBT - ASK



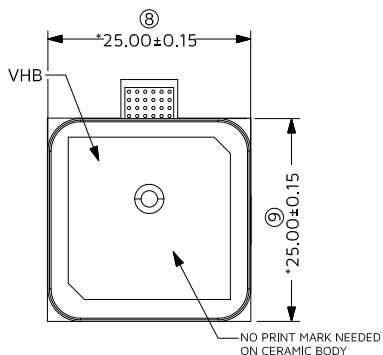
NOT TO SCALE

THIRD ANGLE PROJECTION

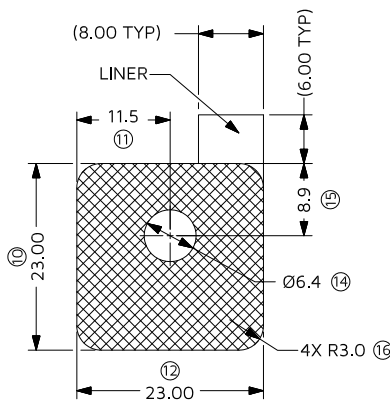
ALL DIMENSIONS IN mm



RELEASE PAPER REMOVED



VHB REMOVED



VHB WITH RELEASE PAPER
3M VHB 4950, 1.1mm

NOTE:

1. THIS GNSS WITHOUT SHIELD IS FOR 4 IN1 SERIES;
2. RF FUNCTION MUST FOLLOW YOUR OWN DATASHEET DEFINED THAT OUR RF ENGINEER HAVE APPROVED;
3. MAKE A GOOD PROTECTION (NO DAMAGE TO COMPONENTS AND ESD ISSUE) DURING TRANSFORMATION BECAUSE OF NO METAL SHIELDING;
4. GAIN: 28DB±3;
5. ESD TEST FOLLOW OUR SPEC IN THE NEXT PAGE SHOWN.

ITEM	COMPONENTS	NOTE
1	LINER	PPER MUST INCLUDE ALL MATERIA THAT THIS PA IS USING
2	VHB	
3	CERAMIC WITH SILVER PRINTING	
4	CENTER PIN	
5	PCB WITH COMPONENTS VHB ASSY	

KC	1	03JUL25	--
NAME	ISS.	DATE	CN/CO
APPROVED: WALKER/MEIZY			
CHECKED: THIRI			
DRAWN: KC			

HARWIN

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TOLERANCES
X. = ±1mm
X.X = ±0.50mm
X.XX = ±0.20mm
X.XXX = ±0.01mm
ANGLES = ±5°
UNLESS STATED

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MATERIAL & FINISH:

TITLE:

GNSS Elliptic Patch GPS L1

DRAWING NUMBER:

MMANT-1600700-PP-001

SHT
1 OF 2

Customer Information Sheet

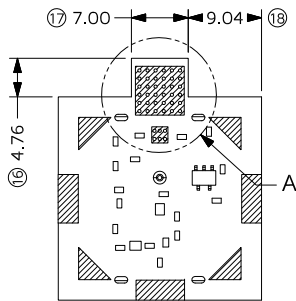
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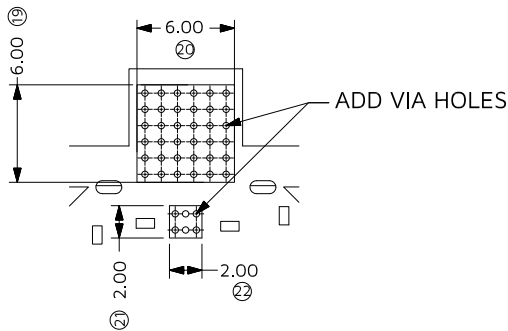
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



PCB SOLDER PAD ENLARGE



DETAIL A
SCALE 4:1

ESD Test (Operational test)

Condition:

Contact: $\pm 8\text{kV}$ Contact discharge to enclosure
Air: $\pm 15\text{kV}, \pm 20\text{kV}, \pm 25\text{kV}$ Air discharge in vicinity of enclosure
Test shall be performed with antenna GNSS facing sky

DUT state: Device must remain powered for duration of test and be fully functional

Criterion:

Contact: No error permitted in LNA
Air: Recoverable error permitted in LNA(error is remedied by power cycle)
Furthermore, confirm:
RF parameters in spec
GNSS current draw does not deviate excessively from nominal
No components damage

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NAME	ISS.	DATE	CN/CO
APPROVED: WALKER/MEIZY			
CHECKED: THIRI			
DRAWN: KC			

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TOLERANCES

X. = $\pm 1\text{mm}$
X.X = $\pm 0.50\text{mm}$
X.XX = $\pm 0.20\text{mm}$
X.XXX = $\pm 0.01\text{mm}$

ANGLES = $\pm 5^\circ$
UNLESS STATED

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SHT
2
OF
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