

Customer Information Sheet

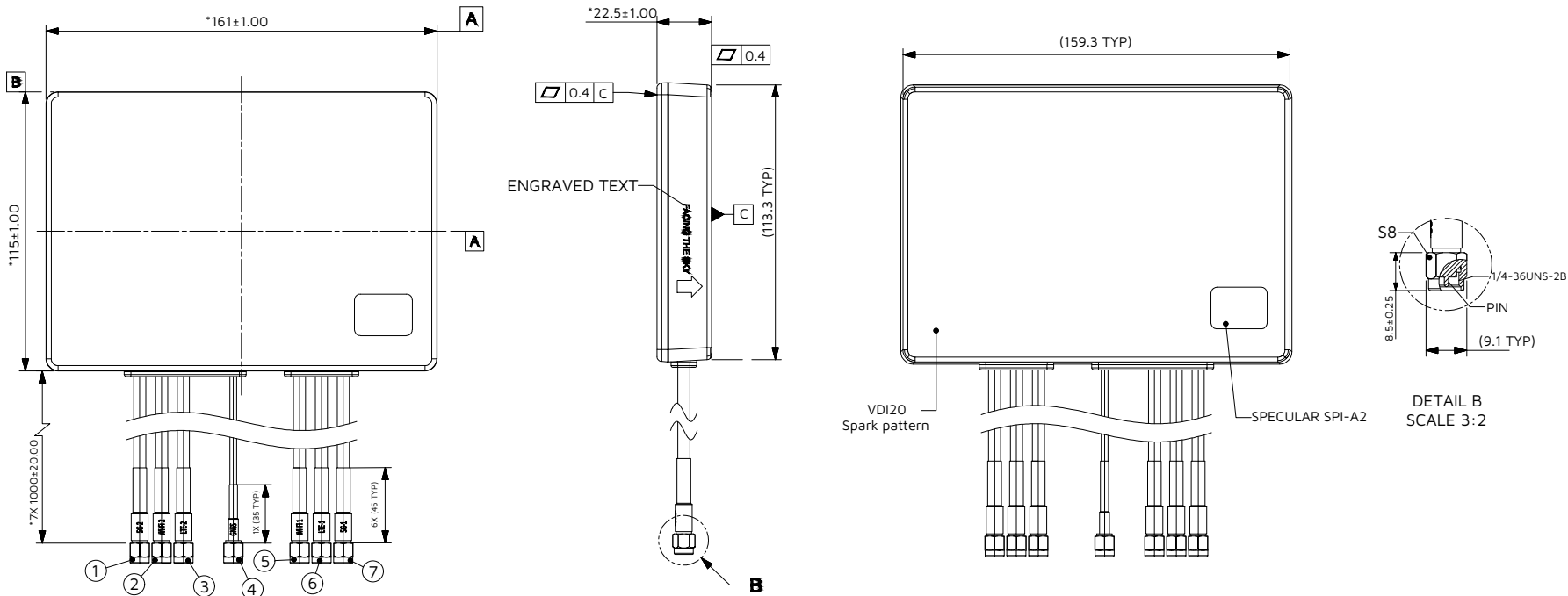
IF IN DOUBT - ASK

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NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



NOTE:
1.IPX7 REQUIREMENT FOR THIS EXTERNAL ANTENNA;
2.RELIABILITY TEST PER OUR TEST SPEC WE PROVIDED;
3.RF SPEC PER OUR RF ENGINEER DEFINED;
4.COSMETIC SPEC,PLESAE FOLLOW OUR AQP'S DEFINITION.
5.WORKING FREQUENCY
FREQUENCY 698-960MHz/1500-1700MHz/1710-2690MHz/3300-5000MHz FOR LTE/5G
FREQUENCY 2400-2500MHz/5150-5850MHz/5925-7125MHz FOR WI-FI
FREQUENCY 1561-1602MHz FOR GNSS

NO.	NAME	MATERIALS	REMARKS
14	SILICONE PLUG GLUE	GLUE	
13	TOP AND BOTTOM GLUE	BLACK GLUE	
12	SOLDER WIRE	SnCu	
11	PRESSURE SENSITIVE ADHESIVE	FY-VHB	
10	FOAM/GPS	EVA	
9	SHIELDING FOR GNSS	TINPLATE	
8	GNSS MODULE(GPS)	Ceramic Antenna	
7	PCB	FR-4 GREEN	
6	7in1 BOTTOM COVER	Plastic resin PC/ABS	
5	7in1 TOP COVER	Plastic resin PC/ABS	
4	SIDE CAP 3-HOLE	SILICONE 50A HARDNESS BLACK	
3	SIDE CAP 4-HOLE	SILICONE 50A HARDNESS BLACK	
2	RG174 BLACK CABLE SMA CONNECT	BLACK CABLE	
1	ALSR200 BLACK CABLE SMA CONNECT	BLACK CABLE	
	ALSR200 BLACK CABLE SMA CONNECT		
	ALSR200 BLACK CABLE SMA CONNECT		
	ALSR200 BLACK CABLE SMA CONNECT		
	ALSR200 BLACK CABLE SMA CONNECT		

KC	1	08JUL25	--
NAME	ISS.	DATE	CN/CO
APPROVED: WALKER/MEIZY			
CHECKED: THIRI			
DRAWN: KC			

HARWIN

www.harwin.com

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:

7-in-1 Combo Antenna: 2x LTE, 2x Wi-Fi, 2x 5G,
1x Active GPS, Adhesive Mount, IP67 Rated, SMA Connectors

DRAWING NUMBER:

MMANT-1700401-SM7-000

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