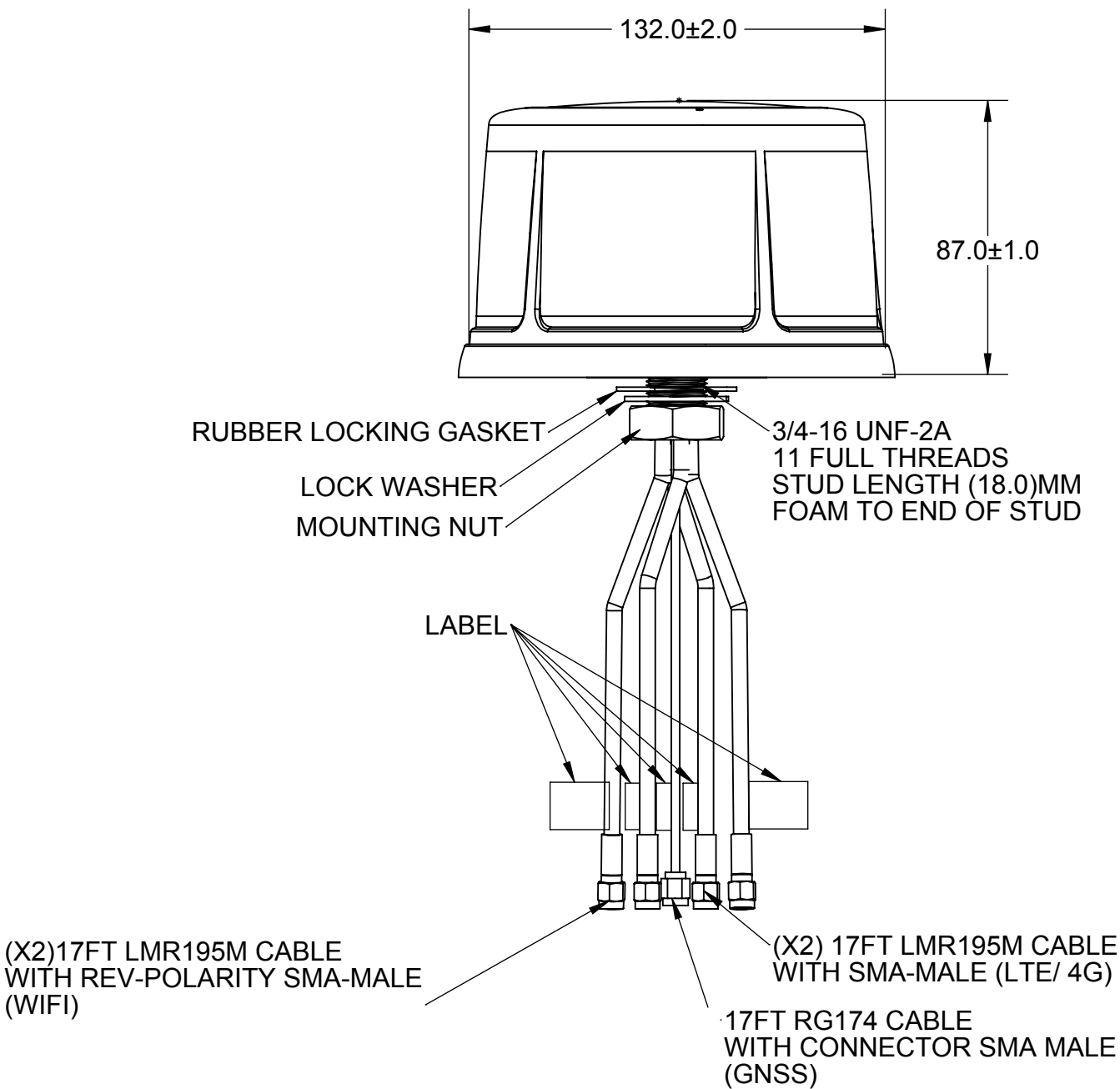


6	5	4
PARAMETER	SPECIFICATION	
Model	Disk Puck 5 Ports 4G WIFI GPS (VHP69273B22J-518A/VHP69273W22J-518A)	
Port Configuration	LTE/4G	WIFI
Frequency (MHz)	698-960; 1710-2700	2300-2700; 4900-5900
Gain (dBi)	3.0 (typical), 4.1 (max) @ 698-806 MHz	3.2 (typical), 4.3 (max) @2300-2400 MHz
	3.3 (typical), 4.1 (max) @ 824-894 MHz	5.1 (typical), 5.8 (max) @ 2400-2500 MHz
	3.1 (typical), 3.3 (max) @ 880-960 MHz	5.5 (typical), 6.2 (max) @2500-2700 MHz
	4.0 (typical), 4.7 (max) @ 1710-1880 MHz	5.4 (typical), 6.5 (max) @ 4900-5900 MHz
	4.8 (typical), 5.4 (max) @ 1850-1990 MHz	
	5.1 (typical), 5.8 (max) @ 1910-2170 MHz	
	4.9 (typical), 5.6 (max) @ 2300-2500 MHz	
	5.4 (typical), 5.9 (max) @ 2500-2700 MHz	
	(measured on 1ft (308.4mm) dia. ground plane with 1ft (304.8mm) of cable)	
Number of Ports	2 Ports	2 Port
Port to Port Isolation (dB)	> 14 dB (LTE1-to-LTE2)	
	> 18 dB (LTE1-to-WIFI1)	
	> 19 dB (LTE1-to-WIFI2)	
	> 19 dB (LTE2-to-WIFI1)	
	> 18 dB (LTE2-to-WIFI2)	
	> 20 dB (WIFI1-to-WIFI2)	
Nominal Impedance	50 Ohms	
Polarization	Vertical Linear	
Azimuth Beam Width	Omnidirectional	
Max Gain ±30 above Horizon 5GHz (dBi)	N/A	6.2 dBi
VSWR	2 : 1 @ 698-960MHz	2 : 1 @ 2300-2700MHz
	2 : 1 @ 1710-2700MHz	2 : 1 @ 4900-5900MHz
	(measured on 1ft (304.8mm) dia. ground plane with 17ft (5181.6mm) of cable)	
Power Input (Max.)	50 Watts (ambient temp of 25°C(77°F))	
Amplifier Gain	N/A	N/A
DC Current	N/A	N/A
DC Voltage	N/A	N/A
Noise Figure	N/A	N/A
Operating Temperature Range	-30°C ~ +70°C (-22°F~+158°F)	
Cable	LMR195M	
Connector	SMA-male	RPSMA-male
Exposed Cable length	5181.6mm (17ft)	
Weight	approximately 1.16Kg (2.55lb)	
Radome	Black or White	
Dimension	Ø132mm (dia.) x 87mm (H) (Ø5.197" (dia.) x 3.425" (H))	
RoHs	Compliant	
SPEC	IP67	
Radome and base plate material	PC, UL94-V0, UV Stable	

GNSS ANTENNA SPECIFICATION

LNA (without patch element)			
1	Frequency Range, MHz	Beidou	1561.098±2.046
		GPS	1575.42±1.023
		GLONASS	1602±5
2	DC Voltage, V		2.5 ~ 7
3	Gain, dB		28±3
4	VSWR		≤2.5
5	Noise Figure, dB		≤2.5 @ 1575 MHz
6	Out of Band	698-960 MHz	>80
	Rejection, dBc	1428-1511 MHz	>80
		1710-2700 MHz	>80
		4900-5800 MHz	>70
7	P1dB, dBm		-33
8	Cable Type		RG174
9	Cable Length, cm		518
10	Connector		SMA, Male

3			2		1	
REVISIONS						
REV.	ECR#	DESCRIPTION			CHANGED BY/DATE	APPROVED BY/DATE
F01		INITIAL RELEASE			LCTAN 05MAY20	TERENCE 05MAY20
F02	ECO-20-00509	UPDATE GNSS SPECIFICATION			LCTAN 15OCT20	TERENCE 15OCT20



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MATERIAL: N/A			THIRD ANGLE PROJECTION																												
FINISH: N/A																															
<table><tr><td colspan="2">APPROVALS</td><td>DATE</td></tr><tr><td>DRAWN BY</td><td>LCTAN</td><td>15OCT20</td></tr><tr><td>ELEC. ENG.</td><td>TED H.</td><td>15OCT20</td></tr><tr><td>MECH. ENG.</td><td>WT NG</td><td>15OCT20</td></tr><tr><td>MFG./OPS.</td><td>GL YEAP</td><td>15OCT20</td></tr><tr><td colspan="3"></td></tr></table>			APPROVALS		DATE	DRAWN BY	LCTAN	15OCT20	ELEC. ENG.	TED H.	15OCT20	MECH. ENG.	WT NG	15OCT20	MFG./OPS.	GL YEAP	15OCT20				DO NOT SCALE DRAWING		<table><tr><td colspan="3">TITLE:</td></tr><tr><td colspan="3">VHP69273x22J-518A</td></tr></table>			TITLE:			VHP69273x22J-518A		
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INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-2009																															
TOLERANCES UNLESS OTHERWISE SPECIFIED																															
DIMENSIONS ARE IN MILLIMETERS																															
			ANGLE: 0 PLACE DECIMAL: ±30' 1 PLACE DECIMAL: ±0.5 2 PLACE DECIMAL: ±0.25 2 PLACE DECIMAL: ±0.13		SIZE		DWG. NO.		REV																						
			SURFACE ROUGHNESS 1.6/√		A3		VHP69273x22J-518AMO		F02																						
					SCALE: 1:4		PREVIOUS# ERROR!Old Number			SHEET 1 OF 1																					