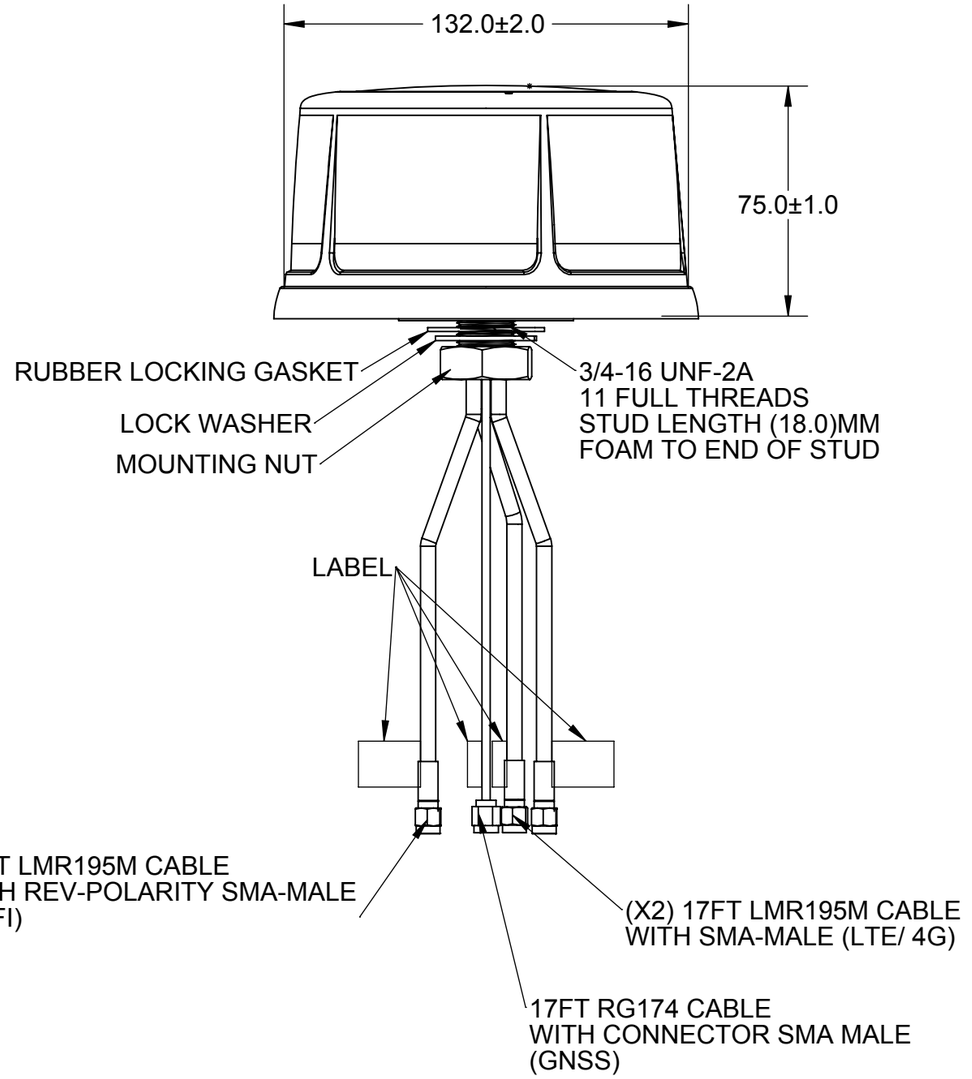
PARAMETER	SPECIFICATION	
Model	Disk Puck 4 Ports 4G WIFI GNSS (VLQ69273B21J-518A / VLQ69273W21J-518A)	
Port Configuration	LTE/4G	WIFI
Frequency (MHz)	698-960; 1710-2700	2300-2700; 4900-5900
Gain (dBi)	1.6 (typical), 2.6 (max) @ 698-806 MHz	4.8 (typical), 5.5 (max) @2300-2700 MHz
	2.5 (typical), 3.3 (max) @ 824-894 MHz	4.4 (typical), 5.3 (max) @ 4900-5900 MHz
	2.7 (typical), 3.3 (max) @ 880-960 MHz	
	2.9 (typical), 3.8 (max) @ 1710-1880 MHz	
	2.9 (typical), 3.3 (max) @ 1850-1990 MHz	
	3.2 (typical), 3.6 (max) @ 1910-2170 MHz	
	4.0 (typical), 4.6 (max) @ 2300-2500 MHz	
	4.0 (typical), 4.5 (max) @ 2500-2700 MHz	
	(measured on 1ft (308.4mm) dia. ground plane with 1ft (304.8mm) of cable)	
Number of Ports	2 Ports	1 Port
Port to Port Isolation (dB)	> 15 dB (LTE1-to-LTE2)	
	> 18 dB (LTE1-to-WiFi)	
	> 20 dB (LTE2-to-WiFi)	
Nominal Impedance	50 Ohms	
Polarization	Vertical Linear	
Azimuth Beam Width	Omnidirectional	
Max Gain ±30 above Horizon 5GHz (dBi)	N/A	4.13 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	RSMA-male
Exposed Cable length	5181.6mm (17ft)	
Weight	approximately 0.95Kg (2.09lb)	
Radome	Black or White	
Dimension	Ø132mm (dia.) x 75mm (H) (Ø5.197" (dia.) x 2.953" (H))	
RoHs	Compliant	
SPEC	IP67	
Radome and base plate material	PC, UL94-V0, UV Stable	

GNSS ANTENNA SPECIFICATION F02

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

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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 06JUL20	TERENCE 06JUL20



MATERIAL: N/A		THIRD ANGLE PROJECTION
FINISH: N/A		DO NOT SCALE DRAWING
APPROVALS	DATE	INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5M-2009
DRAWN BY LCTAN	15OCT20	TOLERANCES UNLESS OTHERWISE SPECIFIED
ELEC. ENG. TED H.	15OCT20	DIMENSIONS ARE IN MILLIMETERS
MECH. ENG. WTNG	15OCT20	ANGLE: ±30'
MFG./OPS. GL YEAP	15OCT20	0 PLACE DECIMAL: ±0.5
		1 PLACE DECIMAL: ±0.25
		2 PLACE DECIMAL: ±0.13
		SURFACE ROUGHNESS 1.6

TE connectivity

TITLE:

VLQ69273x21J-518A

SIZE	DWG. NO.	REV
A3	VLQ69273x21J-518AMO	F02
SCALE: 1:4	PREVIOUS# ERROR!:Old Number	SHEET 1 OF 1