

PARAMETER		SPECIFICATION									
Antenna Model		L000434-01 / L000434-02 / L000434-03									
Alias Part No		VNK6172B-530A / VNK6172B-530H / VNK6172W-530A									
Number of Ports		9 (4x- 3G/LTE/4G/5G Cellular, 4x- Wi-Fi 6E, 1x- L1+L5 GNSS)									
Port Configuration (Label)		4x- 3G/LTE/4G/ISM/CBR5 (Cellular)							4x - Wi-Fi 6E		
Frequency Bands, MHz		617-698	698-960	1427-1511	1690-2700	3300-4200	4400-6000	6000-7125	2400-2500	4900-6000	6000-7125
Peak Gain, dBi*		2	6	7	9	9	9	7.5	8	8	7.5
Total Efficiency (Average), %*		46		67	68	67	61	49	57	55	51
VSWR (Max)**		< 1.9:1	< 1.9:1	< 1.5:1	< 1.4:1	< 1.4:1	< 1.7:1	< 2:1	< 1.5:1	< 1.4:1	< 1.4:1
Isolation- Cellular-to-Cellular/BT Elements		11	11	21	20	29	34	39	N/A		
Isolation- Wi-Fi-to-Wi-Fi Elements, dB**		N/A							22	27	32
Max Gain ±30° above Horizon @ 5 GHz U-NII Bands, dBi*	5150-5250 MHz	7							8		
	5250-5350 MHz	7							7		
	5470-5725 MHz	7.5							7		
	5725-5850 MHz	7							7		
Max Power @ Ambient 20°C, Watts		10							1		
Connector Type		L000434-01 @ SMA-Male L000434-02 @ FAKRA-D L000434-03 @ SMA-Male							L000434-01 @ RP SMA-Male L000434-02 @ FAKRA-I L000434-03 @ RP SMA-Male		
Polarization		Linear									
Nominal Impedance, Ω		50									
Weight, g (lbs)		2380 (5.25)									
Cables		1ft. RG174LL- pigtails/Staggered; 16ft. RG58LL- extension cables									
Mounting Type		Fixed Stud M20									
Antenna Dimension Ht x Dia, mm (inches)		68 x 187 (2.7 x 7.4)									
Radome Color		Black/White									
Radome Material		PC, UL94-V0									
Baseplate Material		Aluminium									
Ingression Protection		IP67, IP69K									
UV Rated		ASTM D4674									
Operating Temperature, °C (°F)		-40 to +85 (-40 to 185)									
Storage Temperature, °C (°F)		-40 to +85 (-40 to 185)									
Humidity Rating		MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%									
Flammability Rating		UL94 V0									
Mechanical Shock Rating		IEC 60068-2-27, Secured Cross Country Vehicles									
Vibration Test Rating		MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration									
Material Substance Compliance		RoHS									
Wind Velocity (MPH)- Operational		100									
Wind Velocity (MPH)- Survival		136									

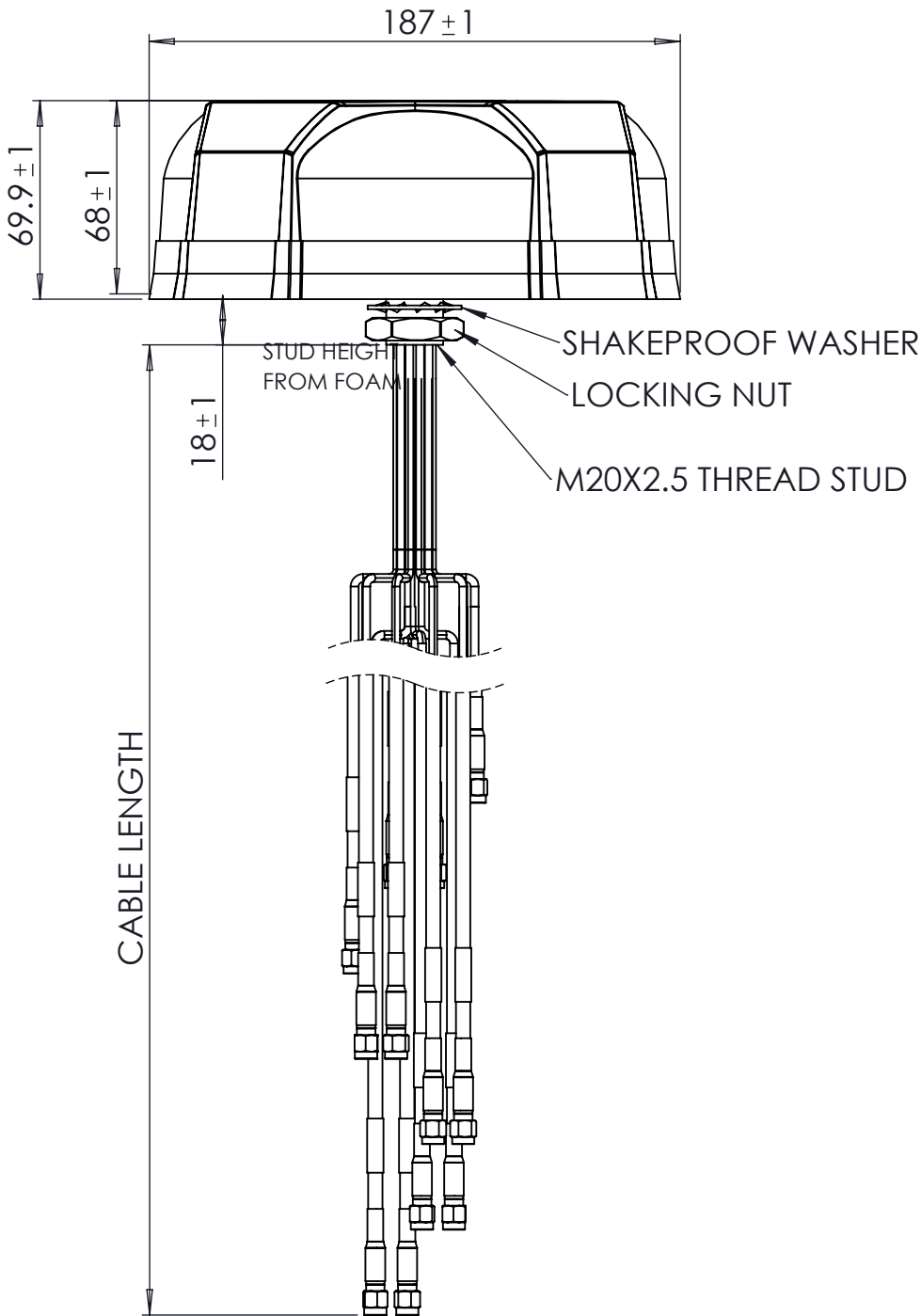
Antenna is measured on a 2ft x 2ft ground plane.
*Measured with 1ft RG174LL coax cable.
**Measured with 1ft RG174LL pigtail +16ft RG58LL extension cable.

CABLE LOSS											
RG58LL, OD 4.95±0.20mm (ECE R118 Compliant) (P/N: L000326-01)											
Frequency, MHz	698	960	1511	2500	2700	3300	4200	4400	4900	6000	7125
Cable Attenuation, dB/m	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1	1.1	1.2	1.3

TCPN	No of PORT	RADOME COLOUR	ANTENNA WEIGHT, g (lbs)	PORTS CONFIGURATION			
				4G/5G	WLAN	BT	GNSS
L000434-01	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-02	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-03	9	WHITE	2380 (5.25)	4	4	NA	1
L000434-04	8	BLACK	2100(4.63)	4	2	1	1
L000434-05	8	BLACK	2100(4.63)	4	2	1	1
L000434-06	8	WHITE	2100(4.63)	4	2	1	1
L000434-07	4	BLACK	1250(2.76)	4	NA	NA	NA
L000434-08	14	BLACK	3410(7.52)	4	8	1	1
L000434-09	7	BLACK	1900(4.19)	4	2	NA	1

GNSS ANTENNA SPECIFICATIONS		
Frequency, MHz		1164-1189; 1559-1610
Passive Antenna Peak Gain, dBi	1176.45 MHz	-0.4 Typ.
	1561 MHz	-0.6 Typ.
	1575.42 MHz	0.9 Typ.
	1602 MHz	-0.5 Typ.
LNA Gain, dBi		28 ± 3 Typ.
Noise Figure, dB		3.0 Typ.
Max VSWR		2.0:1
Polarization		RHCP
Nominal Impedance, Ω		50
DC Voltage, Vdc		2~5
Current @ DC 3V, mA		12.5 Typ.
Input Max Power @ DC 3V, dBm		+10
Out-of-band Rejection, dBc	350-520 MHz	> 65
	698-960 MHz	> 70
	1428-1511 MHz	> 40
	1710-2700 MHz	> 65
Cable Type		RG174, Light Gray
Connector	L000434-01 @ SMA-Male	
	L000434-02 @ FAKRA-C	
	L000434-03 @ SMA-Male	

REVISIONS				
REV	DESCRIPTION	DATE	DWN	APVD
A	ECO-23-00100; PRODUCTION RELEASE	02MAY2023	LCT	LLT
A1	ADD "IP69K" FOR IP RATING	08JAN2024	IZZ	WTN
A2	ADD L000434-09	01AUG2024	LC	LL



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN LCTAN CHK —	05OCT2023		 TE Connectivity					
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD —	NAME MULTI PORT VEHICLE ANTENNA 5G,WIFI,GNSS					
		0 PLC	±0.5	PRODUCT SPEC					—	
		1 PLC	±0.25	—					—	
		2 PLC	±0.13	APPLICATION SPEC					—	
		3 PLC	±—	—					—	
4 PLC	±—	—	—	—						
ANGLES	±—°			—	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO		
MATERIAL	FINISH	WEIGHT		—	A3	00779	C=L000434	—		
—	—									
—	—									
CUSTOMER DRAWING					SCALE	1:2	SHEET	1 OF 6	REV	A2

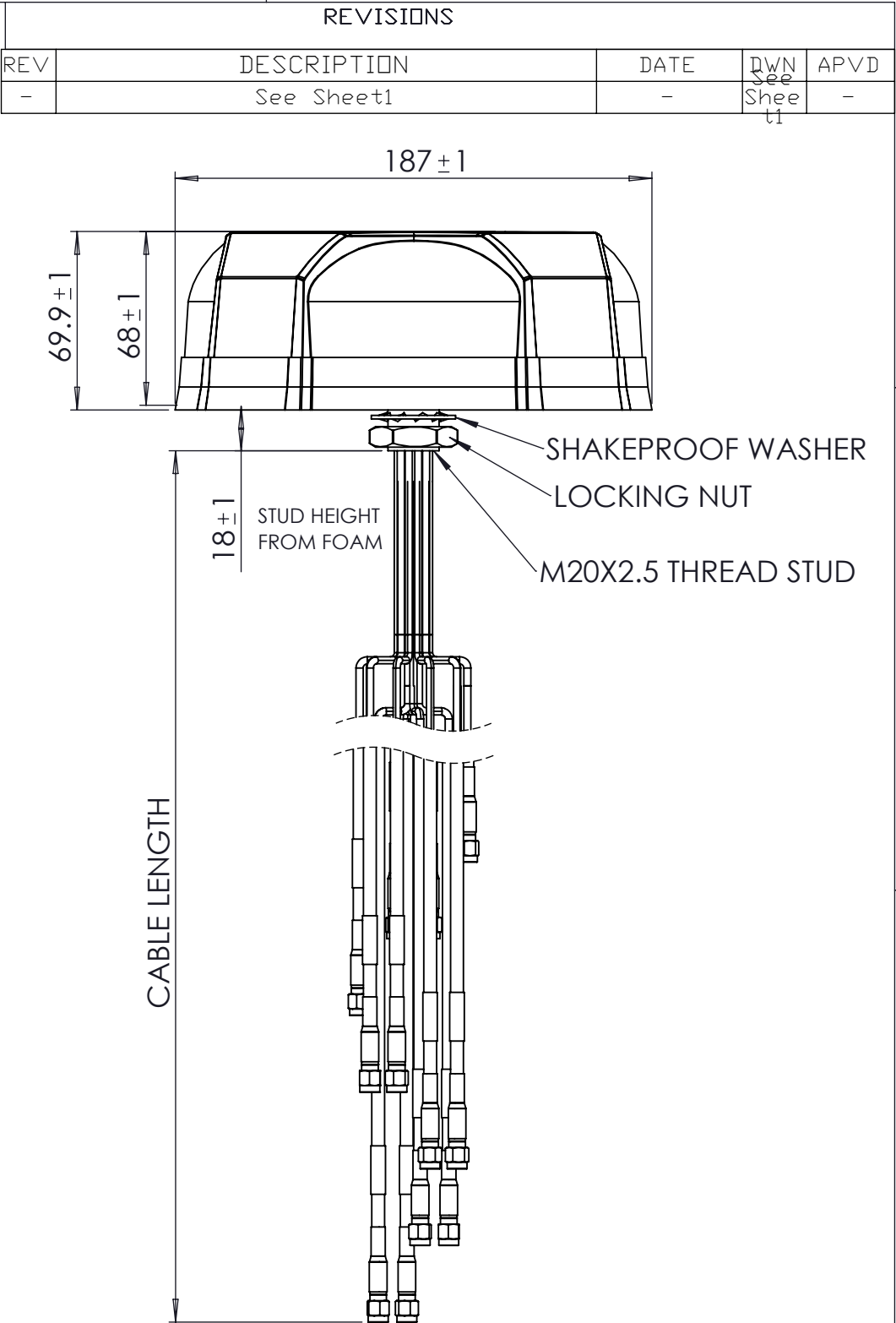
PARAMETER		SPECIFICATION											
Antenna Model		L000434-04 / L000434-05 / L000434-06											
Alias Part No		VEK61726B-530AG/VEK61726B-530AN/VEK61726W-530AG											
Number of Ports		8 (4x- 3G/LTE/4G/5G Cellular, 2x- Wi-Fi 6E, 1x- Bluetooth, 1x- L1+L5 GNSS)											
Port Configuration (Label)		4x- 3G/LTE/4G/ISM/CBRS (Cellular)							8x - Wi-Fi 6E			1x- Bluetooth (BT)	
Frequency Bands, MHz		617-698	698-960	1427-1511	1690-2700	3300-4200	4400-6000	6000-7125	2400-2500	4900-6000	6000-7125	2400-2500	
Peak Gain, dBi*		2	6	7	9	9	9	7.5	8	8	7.5	8	
Total Efficiency (Average), %*		46		67	68	67	61	49	57	55	51	57	
VSWR (Max)**		< 1.9:1	< 1.9:1	< 1.5:1	< 1.4:1	< 1.4:1	< 1.7:1	< 2:1	< 1.5:1	< 1.4:1	< 1.4:1	< 1.5:1	
Isolation- Cellular-to-Cellular/BT Elements, dB**		11	11	21	20	29	34	39	N/A			22	
Isolation- Wi-Fi-to-Wi-Fi Elements, dB**		N/A							22	27	32	N/A	
Max Gain ±30° above Horizon @ 5 GHz U-NII Bands, dBi*	5150-5250 MHz	7							8			N/A	
	5250-5350 MHz	7							7				
	5470-5725 MHz	7.5							7				
	5725-5850 MHz	7							7				
Max Power @ Ambient 20°C, Watts		10							1				
Connector Type		L000434-04 @ SMA-Male L000434-05 @ FAKRA-D L000434-06 @ SMA-Male							L000434-04 @ RP SMA-Male L000434-05 @ FAKRA-I L000434-06 @ RP SMA-Male			L000434-04 @ SMA-Male L000434-05 @ FAKRA-Z L000434-06 @ SMA-Male	
Polarization		Linear											
Nominal Impedance, Ω		50											
Weight, g (lbs)		2100 (4.63)											
Cables		1ft. RG174LL- pigtails/Staggered; 16ft. RG58LL- extension cables											
Mounting Type		Fixed Stud M20											
Antenna Dimension Ht x Dia, mm (inches)		68 x 187 (2.7 x 7.4)											
Radome Color		Black/White											
Radome Material		PC, UL94-V0											
Baseplate Material		Aluminium											
Ingression Protection		IP67, IP69K											
UV Rated		ASTM D4674											
Operating Temperature, °C (°F)		-40 to +85 (-40 to 185)											
Storage Temperature, °C (°F)		-40 to +85 (-40 to 185)											
Humidity Rating		MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%											
Flammability Rating		UL94 V0											
Mechanical Shock Rating		IEC 60068-2-27, Secured Cross Country Vehicles											
Vibration Test Rating		MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration											
Material Substance Compliance		RoHS											
Wind Velocity (MPH)- Operational		100											
Wind Velocity (MPH)- Survival		136											

Antenna is measured on a 2ft x 2ft ground plane.
*Measured with 1ft RG174LL coax cable.
**Measured with 1ft RG174LL pigtail +16ft RG58LL extension cable.

CABLE LOSS												
RG58LL, OD 4.95±0.20mm (ECE R118 Compliant) (P/N: L000326-01)												
Frequency, MHz	698	960	1511	2500	2700	3300	4200	4400	4900	6000	7125	
Cable Attenuation, dB/m	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1	1.1	1.2	1.3	

TCPN	No of PORT	RADOME COLOUR	ANTENNA WEIGHT, g (lbs)	PORTS CONFIGURATION			
				4G/5G	WLAN	BT	GNSS
L000434-01	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-02	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-03	9	WHITE	2380 (5.25)	4	4	NA	1
L000434-04	8	BLACK	2100(4.63)	4	2	1	1
L000434-05	8	BLACK	2100(4.63)	4	2	1	1
L000434-06	8	WHITE	2100(4.63)	4	2	1	1
L000434-07	4	BLACK	1250(2.76)	4	NA	NA	NA
L000434-08	14	BLACK	3410(7.52)	4	8	1	1
L000434-09	7	BLACK	1900(4.19)	4	2	NA	1

GNSS ANTENNA SPECIFICATIONS		
Frequency, MHz		1164-1189; 1559-1610
Passive Antenna Peak Gain, dBi	1176.45 MHz	-0.4 Typ.
	1561 MHz	-0.6 Typ.
	1575.42 MHz	0.9 Typ.
	1602 MHz	-0.5 Typ.
LNA Gain, dBi		28 ± 3 Typ.
Noise Figure, dB		3.0 Typ.
Max VSWR		2.0:1
Polarization		RHCP
Nominal Impedance, Ω		50
DC Voltage, Vdc		2~5
Current @ DC 3V, mA		12.5 Typ.
Input Max Power @ DC 3V, dBm		+10
Out-of-band Rejection, dBc	350-520 MHz	> 65
	698-960 MHz	> 70
	1428-1511 MHz	> 40
	1710-2700 MHz	> 65
	4900-5800 MHz	> 75
Cable Type		RG174, Light Gray
Connector	L000434-04 @ SMA-Male	
	L000434-05 @ FAKRA-C	
	L000434-06 @ SMA-Male	



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN LCTAN	05OCT2023		TE Connectivity		
		CHK					
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:			NAME MULTI PORT VEHICLE ANTENNA 5G,WIFI,GNSS		
mm		0 PLC ±0.5 1 PLC ±0.25 2 PLC ±0.13 3 PLC ± 4 PLC ± ANGLES ±°					
MATERIAL		FINISH					
		WEIGHT			SIZE A3		
		CUSTOMER DRAWING			CAGE CODE 00779		
					DRAWING NO L000434		
					RESTRICTED TO -		
					SCALE 1:2		
					SHEET 2 OF 6		
					REV A2		

PARAMETER		SPECIFICATION						
Antenna Model		L000434-07						
Alias Part No		VMQ6172B-530K						
Number of Ports		4 (4x- 3G/LTE/4G/5G Cellular)						
Port Configuration (Label)		4x- 3G/LTE/4G/ISM/CBRS (Cellular)						
Frequency Bands, MHz		617-698	698-960	1427-1511	1690-2700	3300-4200	4400-6000	6000-7125
Peak Gain, dBi*		2	6	7	9	9	9	7.5
Total Efficiency (Average), %*		46		67	68	67	61	49
VSWR (Max)**		< 1.9:1	< 1.9:1	< 1.5:1	< 1.4:1	< 1.4:1	< 1.7:1	< 2:1
Isolation- Cellular-to-Cellular/BT Elemen		11	11	21	20	29	34	39
Isolation- Wi-Fi-to-Wi-Fi Elements, dB**		N/A						
Max Gain ±30° above Horizon	5150-5250 MHz	7						
@ 5 GHz U-NII Bands, dBi*	5250-5350 MHz	7						
	5470-5725 MHz	7.5						
	5725-5850 MHz	7						
Max Power @ Ambient 20°C, Watts		10						
Connector Type		SMA-Male						
Polarization		Linear						
Nominal Impedance, Ω		50						
Weight, g (lbs)		1250 (2.76)						
Cables		1ft. RG174LL- pigtails/Staggered; 16ft. RG58LL- extension cables						
Mounting Type		Fixed Stud M20						
Antenna Dimension Ht x Dia, mm (inches)		68 x 187 (2.7 x 7.4)						
Radome Color		Black						
Radome Material		PC, UL94-V0						
Baseplate Material		Aluminium						
Ingression Protection		IP67, IP69K						
UV Rated		ASTM D4674						
Operating Temperature, °C (°F)		-40 to +85 (-40 to 185)						
Storage Temperature, °C (°F)		-40 to +85 (-40 to 185)						
Humidity Rating		MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%						
Flammability Rating		UL94 V0						
Mechanical Shock Rating		IEC 60068-2-27, Secured Cross Country Vehicles						
Vibration Test Rating		MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration						
Material Substance Compliance		RoHS						
Wind Velocity (MPH)- Operational		100						
Wind Velocity (MPH)- Survival		136						

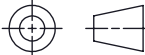
Antenna is measured on a 2ft x 2ft ground plane.

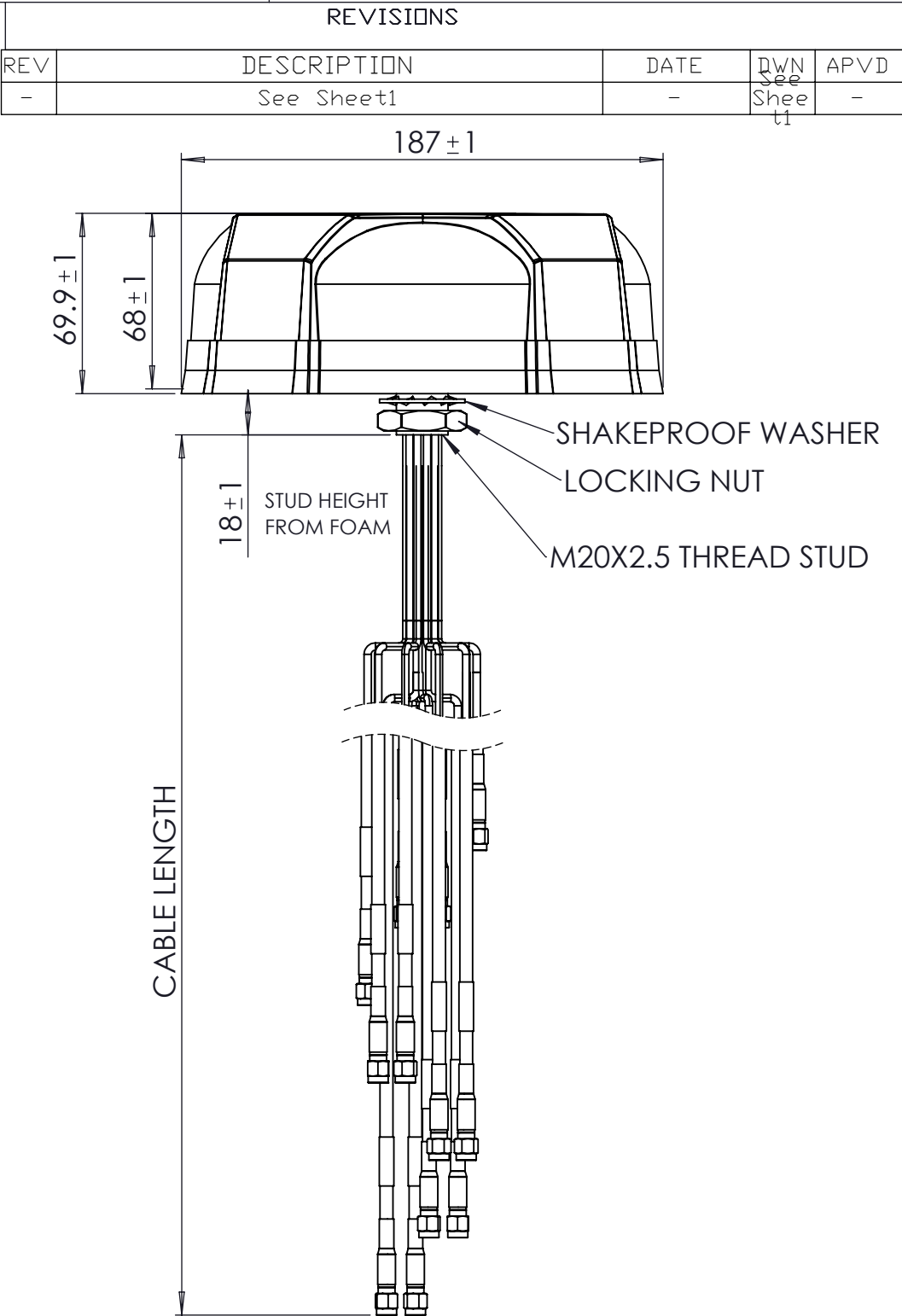
*Measured with 1ft RG174LL coax cable.

**Measured with 1ft RG174LL pigtail +16ft RG58LL extension cable.

CABLE LOSS											
RG58LL, OD 4.95±0.20mm (ECE R118 Compliant) (P/N: L000326-01)											
Frequency, MHz	698	960	1511	2500	2700	3300	4200	4400	4900	6000	7125
Cable Attenuation, dB/m	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1	1.1	1.2	1.3

TCPN	No of PORT	RADOME COLOUR	ANTENNA WEIGHT, g (lbs)	PORTS CONFIGURATION			
				4G/5G	WLAN	BT	GNSS
L000434-01	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-02	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-03	9	WHITE	2380 (5.25)	4	4	NA	1
L000434-04	8	BLACK	2100(4.63)	4	2	1	1
L000434-05	8	BLACK	2100(4.63)	4	2	1	1
L000434-06	8	WHITE	2100(4.63)	4	2	1	1
L000434-07	4	BLACK	1250(2.76)	4	NA	NA	NA
L000434-08	14	BLACK	3410(7.52)	4	8	1	1
L000434-09	7	BLACK	1900(4.19)	4	2	NA	1

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		CHK							
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	NAME MULTI PORT VEHICLE ANTENNA 5G,WIFI,GNSS				
mm		0 PLC ±0.5 1 PLC ±0.25 2 PLC ±0.13 3 PLC ± 4 PLC ± ANGLES ±°		PRODUCT SPEC					
				APPLICATION SPEC	SIZE CAGE CODE DRAWING NO RESTRICTED TO				
MATERIAL		FINISH		WEIGHT					
—		—		—	A300779 C=L000434				
—		—		CUSTOMER DRAWING			SCALE 1:2	SHEET 3 OF 6	REV A2



PARAMETER				SPECIFICATION									
Antenna Model				L000434-08									
Alias Part No				VXXK6172B-530AG									
Number of Ports				14 (4x- 3G/LTE/4G/5G Cellular, 8x- Wi-Fi 6E, 1x- Bluetooth, 1x- L1+L5 GNSS)									
Port Configuration (Label)				4x- 3G/LTE/4G/ISM/CBRS (Cellular)					8x - Wi-Fi 6E			1x- Bluetooth (BT)	
Frequency Bands, MHz		617-698	698-960	1427-1511	1690-2700	3300-4200	4400-6000	6000-7125	2400-2500	4900-6000	6000-7125	2400-2500	
Peak Gain, dBi*		3	5	4.5	8	8	9	7	7.5	8.5	9.5	6	
Total Efficiency (Average), %*		42		41	61	61	54	49	50	51	53	54	
VSWR (Max)**		< 1.8:1	< 1.7:1	< 1.8:1	< 1.6:1	< 1.4:1	< 1.6:1	< 1.7:1	< 1.4:1	< 1.5:1	< 1.5:1	< 1.5:1	
Isolation- Cellular-to-Cellular/BT Elements				13	13	21	20	26	34	38	N/A		22
Isolation- Wi-Fi-to-Wi-Fi Elements, dB**				N/A					22	22	27	N/A	
Max Gain ±30° above Horizon	5150-5250 MHz	6					7.5					N/A	
@ 5 GHz U-NII Bands, dBi*	5250-5350 MHz	7					8						
	5470-5725 MHz	7					7.5						
	5725-5850 MHz	7.5					7.5						
Max Power @ Ambient 20°C, Watts				10					1				
Connector Type				SMA-Male					RP SMA-MALE				
Polarization				Linear									
Nominal Impedance, Ω				50									
Weight, g (lbs)				3410 (7.52)									
Cables				1ft. RG174LL- pigtails/Staggered; 16ft. RG58LL- extension cables									
Mounting Type				Fixed Stud M20									
Antenna Dimension Ht x Dia, mm (inches)				68 x 187 (2.7 x 7.4)									
Radome Color				Black									
Radome Material				PC, UL94-V0									
Baseplate Material				Aluminium									
Ingression Protection				IP67, IP69K									
UV Rated				ASTM D4674									
Operating Temperature, °C (°F)				-40 to +85 (-40 to 185)									
Storage Temperature, °C (°F)				-40 to +85 (-40 to 185)									
Humidity Rating				MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%									
Flammability Rating				UL94 V0									
Mechanical Shock Rating				IEC 60068-2-27, Secured Cross Country Vehicles									
Vibration Test Rating				MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration									
Material Substance Compliance				RoHS									
Wind Velocity (MPH)- Operational				100									
Wind Velocity (MPH)- Survival				136									

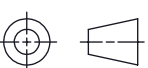
Antenna is measured on a 2ft x 2ft ground plane.

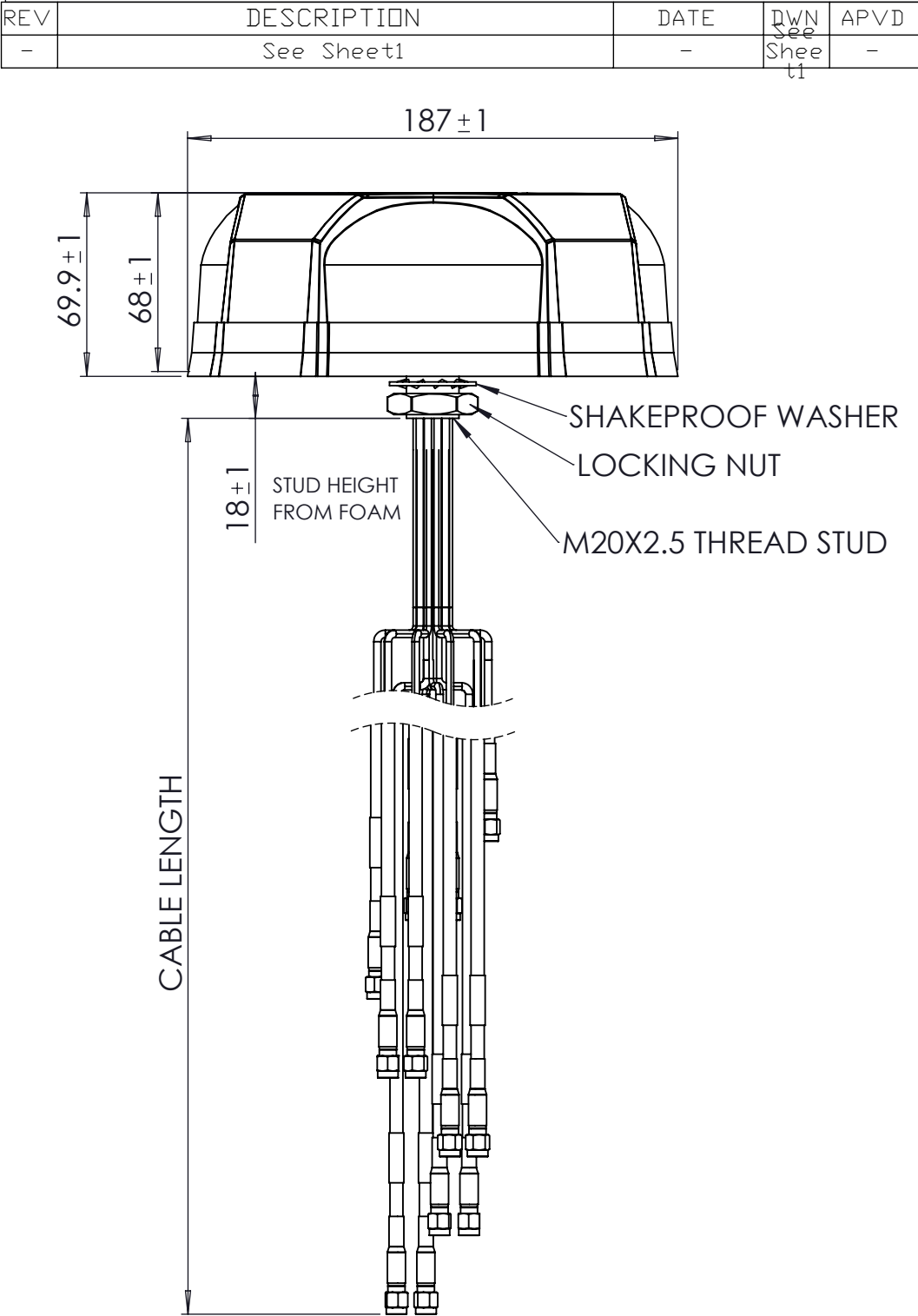
*Measured with 1ft RG174LL coax cable.

**Measured with 1ft RG174LL pigtail +16ft RG58LL extension cable.

CABLE LOSS												
RG58LL, OD 4.95±0.20mm (ECE R118 Compliant) (P/N: L000326-01)												
Frequency, MHz	698	960	1511	2500	2700	3300	4200	4400	4900	6000	7125	
Cable Attenuation, dB/m	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1	1.1	1.2	1.3	

TCPN	No of PORT	RADOME COLOUR	ANTENNA WEIGHT, g (lbs)	PORTS CONFIGURATION			
				4G/5G	WLAN	BT	GNSS
L000434-01	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-02	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-03	9	WHITE	2380 (5.25)	4	4	NA	1
L000434-04	8	BLACK	2100(4.63)	4	2	1	1
L000434-05	8	BLACK	2100(4.63)	4	2	1	1
L000434-06	8	WHITE	2100(4.63)	4	2	1	1
L000434-07	4	BLACK	1250(2.76)	4	NA	NA	NA
L000434-08	14	BLACK	3410(7.52)	4	8	1	1
L000434-09	7	BLACK	1900(4.19)	4	2	NA	1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN LCTAN	05OCT2023	TE Connectivity MULTI PORT VEHICLE ANTENNA 5G,WIFI,GNSS			
DIMENSIONS:		CHK	—				
mm		APVD	—				
		PRODUCT SPEC	—				
		APPLICATION SPEC	—				
MATERIAL		FINISH	—	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
—		—	—	A3	00779	©=L000434	—
—		—	—	CUSTOMER DRAWING		SCALE 1:2	SHEET 4 OF 6
						REV	A2



PARAMETER	SPECIFICATION									
Antenna Model	L000434-09									
Alias Part No	VSK6172W-530A									
Number of Ports	7 (4x- 3G/LTE/4G/5G Cellular, 2x- Wi-Fi 6E, 1x- L1+L5 GNSS)									
Port Configuration (Label)	4x- 3G/LTE/4G/ISM/CBRS (Cellular)							2x - Wi-Fi 6E		
Frequency Bands, MHz	617-698	698-960	1427-1511	1690-2700	3300-4200	4400-6000	6000-7125	2400-2500	4900-6000	6000-7125
Isolation- Cellular-to-Cellular/BT Element	13	13	21	20	26	34	38	N/A		
Max Power @ Ambient 20°C, Watts	10							1		
Connector Type	SMA-Male							RP SMA-MALE		
Polarization	Linear									
Nominal Impedance, Ω	50									
Weight, g (lbs)	1900 (4.19)									
Cables	1ft. RG174LL- pigtails/Staggered; 16ft. RG58LL- extension cables									
Mounting Type	Fixed Stud M20									
Antenna Dimension Ht x Dia, mm (inches)	68 x 187 (2.7 x 7.4)									
Radome Color	Black									
Radome Material	PC, UL94-V0									
Baseplate Material	Aluminium									
Ingression Protection	IP67, IP69K									
UV Rated	ASTM D4674									
Operating Temperature, °C (°F)	-40to +85 (-40 to 185)									
Storage Temperature, °C (°F)	-40to +85 (-40 to 185)									
Humidity Rating	MIL-STD-810G, 507.5, Procedure II, Aggravated Humidity @ 95%									
Flammability Rating	UL94 V0									
Mechanical Shock Rating	IEC 60068-2-27, Secured Cross Country Vehicles									
Vibration Test Rating	MIL-STD-810G, Method 514.6, Category 4, Highway Truck Vibration									
Material Substance Compliance	RoHS									
Wind Velocity (MPH)- Operational	100									
Wind Velocity (MPH)- Survival	136									

Antenna is measured on a 2ft x 2ft ground plane.

*Measured with 1ft RG174LL coax cable.

**Measured with 1ft RG174LL pigtail +16ft RG58LL extension cable.

CABLE LOSS											
RG58LL, OD 4.95±0.20mm (ECE R118 Compliant) (P/N: L000326-01)											
Frequency, MHz	698	960	1511	2500	2700	3300	4200	4400	4900	6000	7125
Cable Attenuation, dB/m	0.3	0.4	0.5	0.7	0.7	0.8	0.9	1	1.1	1.2	1.3

TCPN	No of PORT	RADOME COLOUR	ANTENNA WEIGHT, g (lbs)	PORTS CONFIGURATION			
				4G/5G	WLAN	BT	GNSS
L000434-01	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-02	9	BLACK	2380 (5.25)	4	4	NA	1
L000434-03	9	WHITE	2380 (5.25)	4	4	NA	1
L000434-04	8	BLACK	2100(4.63)	4	2	1	1
L000434-05	8	BLACK	2100(4.63)	4	2	1	1
L000434-06	8	WHITE	2100(4.63)	4	2	1	1
L000434-07	4	BLACK	1250(2.76)	4	NA	NA	NA
L000434-08	14	BLACK	3410(7.52)	4	8	1	1
L000434-09	7	BLACK	1900(4.19)	4	2	NA	1

GNSS ANTENNA SPECIFICATIONS		
Frequency, MHz		1164-1189; 1559-1610
Passive Antenna	1176.45 MHz	-0.4 Typ.
Peak Gain, dBi	1561 MHz	-0.6 Typ.
	1575.42 MHz	0.9 Typ.
	1602 MHz	-0.5 Typ.
LNA Gain, dBi		28 ± 3 Typ.
Noise Figure, dB		3.0 Typ.
Max VSWR		2.0:1
Polarization		RHCP
Nominal Impedance, Ω		50
DC Voltage, Vdc		2~5
Current @ DC 3V, mA		12.5 Typ.
Input Max Power @ DC 3V, dBm		+10
Out-of-band Rejection, dBc	350-520 MHz	> 65
	698-960 MHz	> 70
	1428-1511 MHz	> 40
	1710-2700 MHz	> 65
	4900-5800 MHz	> 75
Cable Type		RG174, Light Gray
Connector		SMA-Male

REVISIONS

REV	DESCRIPTION	DATE	DWN	APVD
-	See Sheet 1	-	See Sheet 1	-

Technical drawing of the Multi Port Vehicle Antenna. The top view shows a rectangular radome with dimensions 187 ± 1 mm in width and 68 ± 1 mm in height. The side view shows the antenna mounted on a base with a stud height of 18 ± 1 mm from the foam. The drawing includes labels for the SHAKEPROOF WASHER, LOCKING NUT, and M20X2.5 THREAD STUD. The cable length is indicated as CABLE LENGTH.

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:

mm

MATERIAL

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.5

1 PLC ±0.25

2 PLC ±0.13

3 PLC ±°

4 PLC ±°

ANGLES ±°

FINISH

-

-

DWN LCTAN CHK

05OCT2023

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

-

CUSTOMER DRAWING

TE Connectivity

NAME

MULTI PORT VEHICLE ANTENNA 5G,WIFI,GNSS

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A300779

C=L000434

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SCALE

1:2

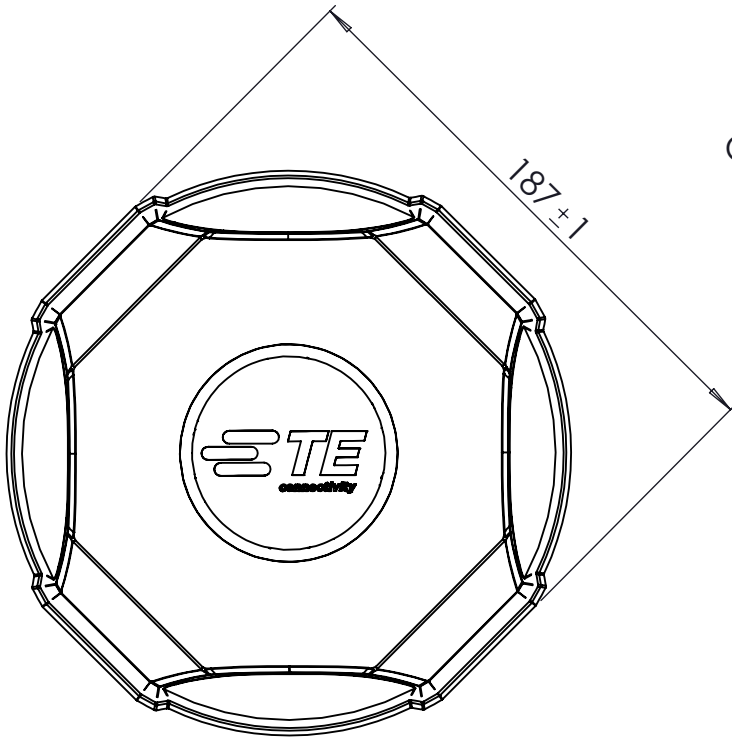
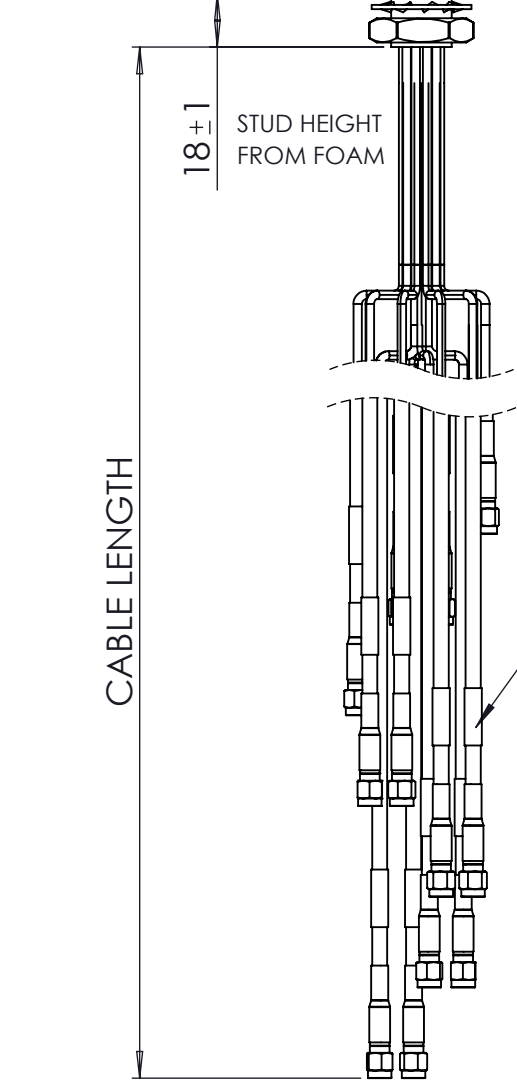
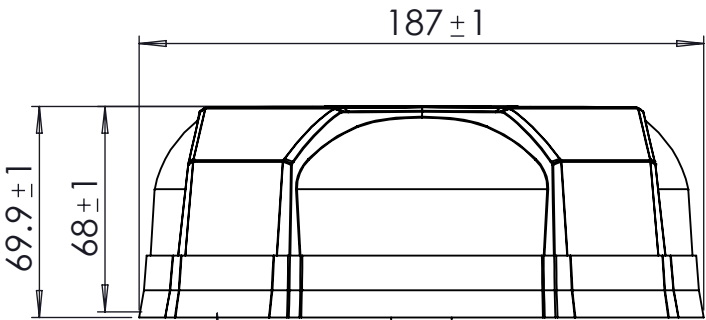
SHEET

5 of 6

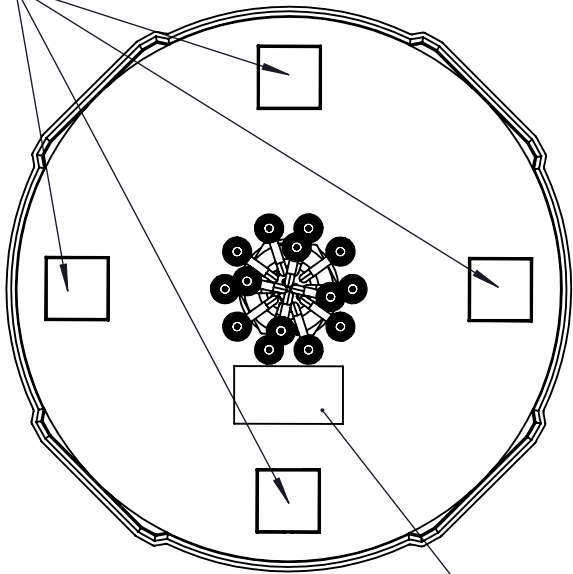
REV

A2

REV	DESCRIPTION	DATE	DWN	APVD
-	See Sheet 1	-	See Sheet 1	-



CONDUCTIVE FOAM



UNIT LABEL

INDICATOR CABLE
(REFER TABLE)

	14 PORTS		9 PORTS				8 PORTS				7 PORTS		4 PORTS	
	Label Description (Colour)	(L000434-08) Connector	Label Description (Colour)	(L000434-01) Connector	(L000434-02) Connector	(L000434-03) Connector	Label Description (Colour)	(L000434-04) Connector	(L000434-05) Connector	(L000434-06) Connector	Label Description (Colour)	(L000434-09) Connector	Label Description (Colour)	(L000434-07) Connector
Cable length (mm)														
5200 +/-104	4G/5G A (YELLOW)	SMA MALE	4G/5G A (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G A (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G A (YELLOW)	SMA MALE	4G/5G A (YELLOW)	SMA MALE
5200 +/-104	4G/5G B (YELLOW)	SMA MALE	4G/5G B (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G B (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G B (YELLOW)	SMA MALE	4G/5G B (YELLOW)	SMA MALE
5230 +/-104	4G/5G C (YELLOW)	SMA MALE	4G/5G C (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G C (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G C (YELLOW)	SMA MALE	4G/5G C (YELLOW)	SMA MALE
5230 +/-104	4G/5G D (YELLOW)	SMA MALE	4G/5G D (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G D (YELLOW)	SMA MALE	FAKRA-D	SMA MALE	4G/5G D (YELLOW)	SMA MALE	4G/5G D (YELLOW)	SMA MALE
5260 +/-104	WLAN 1 (RED)	RP SMA MALE	WLAN 1 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	WLAN 1 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	WLAN 1 (RED)	RP SMA MALE	NA	NA
5260 +/-104	WLAN 2 (RED)	RP SMA MALE	WLAN 2 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	WLAN 2 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	WLAN 2 (RED)	RP SMA MALE	NA	NA
5290 +/-104	WLAN 3 (RED)	RP SMA MALE	WLAN 3 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	BT (BLUE)	SMA MALE	FAKRA-Z	SMA MALE	NA	NA	NA	NA
5290 +/-104	WLAN 4 (RED)	RP SMA MALE	WLAN 4 (RED)	RP SMA MALE	FAKRA-I	RP SMA MALE	NA			NA	NA		NA	NA
5320 +/-104	WLAN 5 (RED)	RP SMA MALE	NA	NA		NA	NA			NA	NA		NA	NA
5320 +/-104	WLAN 6 (RED)	RP SMA MALE	NA	NA		NA	NA			NA	NA		NA	NA
5350 +/-104	WLAN 7 (RED)	RP SMA MALE	NA	NA		NA	NA			NA	NA		NA	NA
5350 +/-104	WLAN 8 (RED)	RP SMA MALE	NA	NA		NA	NA			NA	NA		NA	NA
5380 +/-104	BT (BLUE)	SMA MALE	NA	NA		NA	NA			NA	NA		NA	NA
5380 +/-104	GNSS (WHITE)	SMA MALE	GNSS (WHITE)	SMA MALE	FAKRA-C	SMA MALE	GNSS (WHITE)	SMA MALE	FAKRA-C	SMA MALE	GNSS (WHITE)	SMA MALE	NA	NA

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN LCTAN 05OCT2023

DIMENSIONS:

mm



MATERIAL

-

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TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.5
1 PLC ±0.25
2 PLC ±0.13
3 PLC ±
4 PLC ±
ANGLES ±°

FINISH

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-

CHK

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

-

CUSTOMER DRAWING



TE Connectivity

NAME

MULTI PORT VEHICLE ANTENNA
5G,WIFI,GNSS

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A3

00779

C=L000434

-

SCALE 1:2

SHEET 6 OF 6

REV A2