

APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	12/15/21	
A		UPDATED SPEC.	3/14/22	JJ/LL1

SPECIFICATIONS:
Material:

FAKRA		Grape purple Blue
Cable	RG174	black
Magnets		Silver White
Tags	pvc	black
Lower Shell	ABS	black
Upper Shell	ABS	black
Component name	Material	Color

Electrical:
Cable 1

Standards	4G/3G/2G/NB-IoT/CAT M1		
Frequency range(MHz)	698~960MHz	1710~2170MHz	2300~2690MHz
Peak Gain	-0.5~2.5dBi(698~960MHz)	0.4~3.0dBi(1710~2170MHz)	0.6~3.2dBi(2300~2690MHz)
Average Gain(dB)	-4.2~1.8dB(968~960MHz)	-3.5~2.1dB(1710~2170MHz)	-3.6~2.5dB(2300~2690MHz)
Polarization mode	Linear		
VSWR	<3.0		
Return Loss	<-6.0		
Efficiency (%)	38~65%(698~960MHz)	40~60%(1710~2170MHz)	45~55%(2300~2690MHz)
Radiation pattern	Omni-Directional		
Output impedance	50		
Max.Input Power(W)	5		

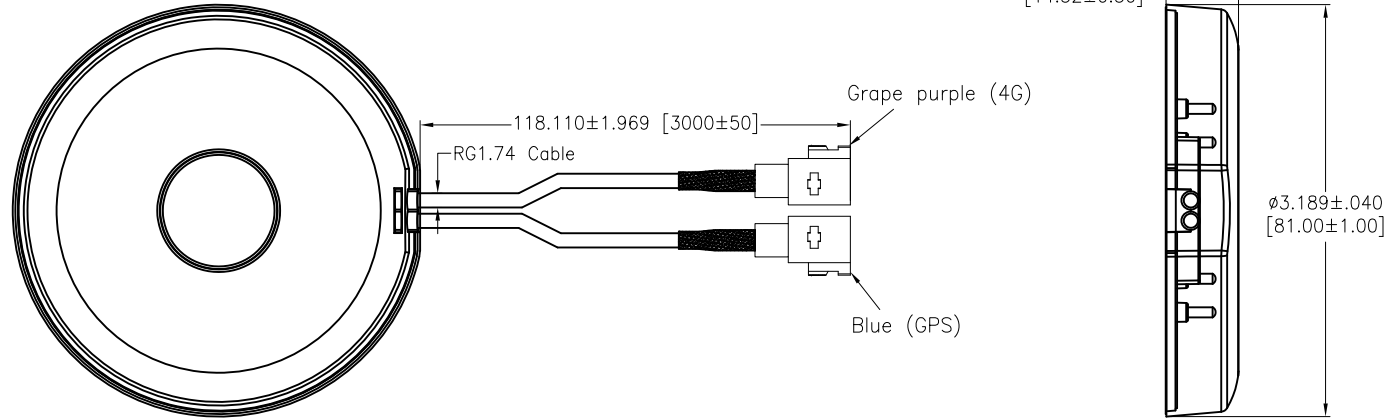
Cable 2

Standards	GPS/Galileo	GLONASS
Band(MHz)	1575MHz	1602MHz
Frequency range(MHz)	1575.42MHz	1598--1610MHz
Peak Gain(dB)	0.4dBi	0.3~0.9dBi
Average Gain(dB)	-3.1dB	-3.4~-2.6dB
VSWR	<2.0	
Return Loss	<-15.0	
Impedance(Ω)	50	
Polarization	RHCP	
Radiation Pattern	Hemispherical	
Saw Filter	Pre-Filter	
Active Gain (dB)	28dB	
Noise-Figure(dB)	1dB(+25°C±10°C)	
Supply Current(Ma)	15mA	
Supply Voltage	1.5V~5.5V	

Mechanical:

Mounting Type	Magnetic
Connector Type	RG174
Antenna size(mm)	81.0 (φ) x 14.32 (L)
Material	External
Cable length(mm)	3000 (can be customized)
Operating Temperature	-40°C~+80°C
Storage Temperature	-40°C~+80°C

Environmental:
Lead free, RoHS compliant.



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE INCHES [MM]. TOLERANCES: EXCEPT AS NOTED

INCHES	HOLES
.X ±.10	Ø.X ±.10
.XX ±.020	Ø.XX ±.015
.XXX ±.015	Ø.XXX ±.010

DRAWN	JJ	12/15/21
CHECKED	RC	12/15/21
APPROVED		

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TITLE 4G & GNSS COMBINATION MAGNET ANTENNA		
SIZE X	PART NO. ANT-19078EB56	REV. A
REF: S00207C	SCALE: NTS	SHEET 1 OF 1