

**ABRACON, LLC
ENGINEERING/PROCESS CHANGE NOTIFICATION FORM**

ABRACON ENGINEERING ORIGINATOR:
Dean Clark – Engineering

NOTIFICATION DATE:

06/09/2017

 IMPLEMENTATION DATE: 06/09/2017

SCD/DRAWING AFFECTED:

APAM2764YK0175 Rev B

REV: A

NEW REV: B

 EFFECTIVITY DATE: 06/09/2017

ECN # 3211

REASON FOR CHANGE:
ESD update, MSL change and packing details, MOQ and T&C update
DETAILS OF SPECIFICATION CHANGE:

Removed ESD handling, update Proprietary Notice and HQ address, MSL level change, update packaging details, and MOQ, update Cautions, Notes and T&C

APPLICATION INFORMATION
Safety
Non Safety
Application:

(Check one)

O

DISPOSITION OF CURRENT STOCK
☐ Scrap

☐ Transfer to: _____

☒ Use as is

☐ Return to vendor

ABRACON INTERNAL APPROVAL:

 APPROVAL (PRES) Mike Calabria DATE 06/09/2017

 GLOBAL QUOTING/PRICING MGR Hector Lopez DATE 06/09/2017

 ENGINEERING VP Syed Raza DATE 06/09/2017

 PURCHASING MGR Ying Huang DATE 06/09/2017

 SALES VP Mike White DATE 06/09/2017

 QUALITY & PROCESS IMPROVEMENT MGR: Reuben Quintanilla DATE 06/09/2017
CUSTOMER APPROVAL (If Applicable)

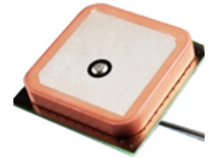
ENGINEERING: NAME: _____ TITLE: _____ DATE: _____

BUYER/PURCHASING: NAME: _____ TITLE: _____ DATE: _____

GPS Active Internal Patch

APAM2764YK0175

RoHS/RoHS II compliant



27.0 x 27.0 x 7.0mm

MSL level: Not Applicable

FEATURES:

- Compact Size
- Easy to Install
- RoHS Compliant

TYPICAL APPLICATIONS:

- Automotive Navigation, Marine buoys
- Personal Tracking
- Surveying equipment, Cell phone, Laptop
- Healthcare and medical monitoring devices, PND, PDA

STANDARD SPECIFICATIONS:

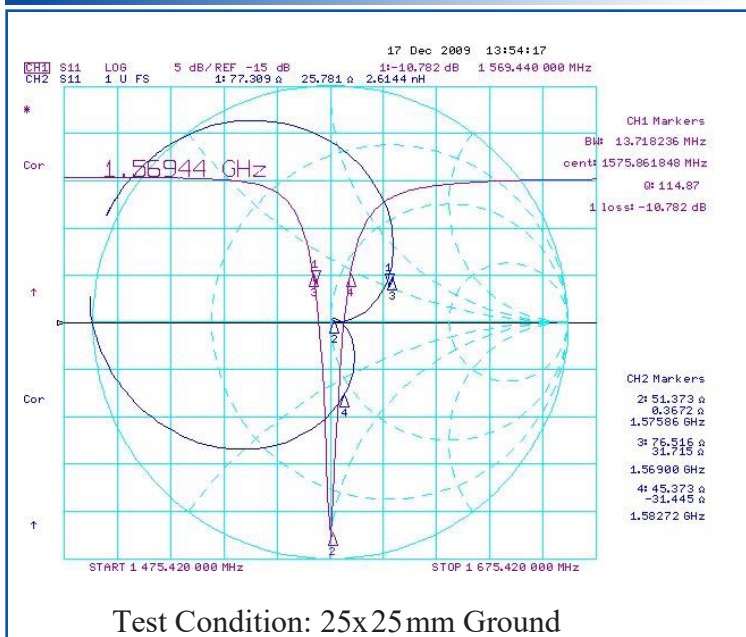
Antenna

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42±1.02			MHz	
Bandwidth	5			MHz	
Gain		2.5		dBic	(Peak gain on 70*70mm Ground Plane facing Zenith.)
VSWR @ Center Frequency		1.5			
Polarization Model	RHCP				(Right Hand Circular Polarization)
Impedance	50			Ω	
Frequency Temperature Coefficient	-10		10	ppm/°C	
Working Temperature	-25		+72	°C	
Storage Temperature	-45		+85	°C	

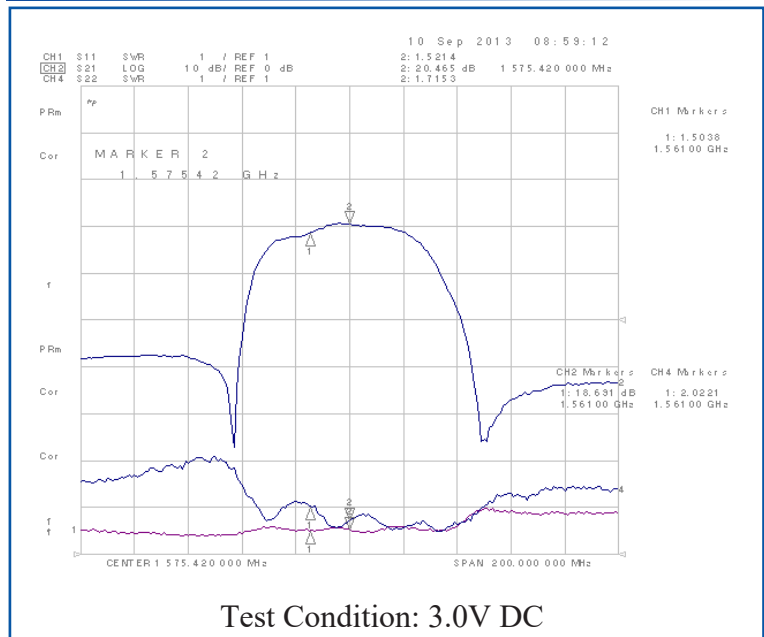
Low Noise Amplifier (LNA)

Parameters	Min.	Typ.	Max.	Units	Note
Center Frequency	1575.42±1.02			MHz	
DC Voltage	2.7		3.3	V	
Gain		28		dB	(Without cable +25°C± 10°C)
Output VSWR			2.0		
Noise Figure		1.3			(+25°C± 10°C)
DC current		9.8		mA	(At 3.0V)

SMITH CHART



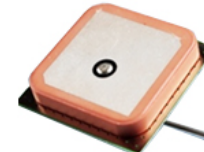
GPS LNA GAIN PLOT



GPS Active Internal Patch

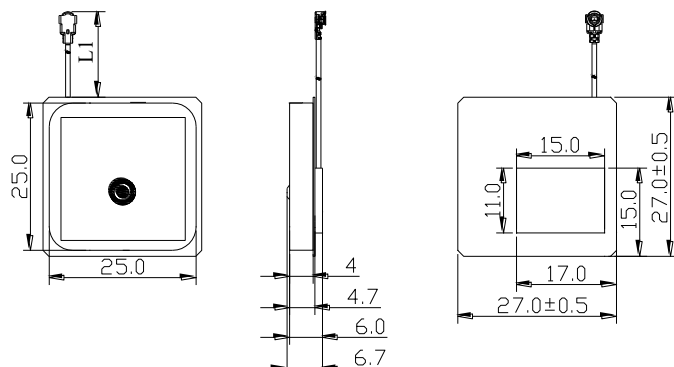
APAM2764YK0175

RoHS/RoHS II compliant



27.0 x 27.0 x 7.0mm

OUTLINE DIMENSION:



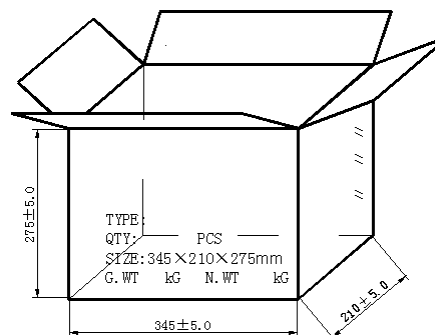
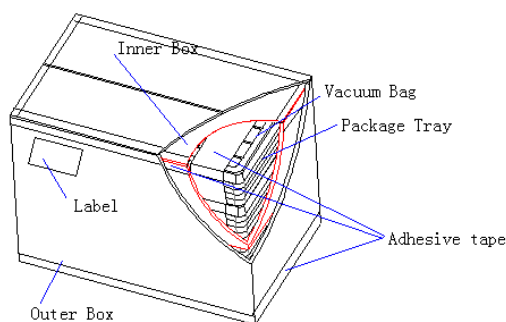
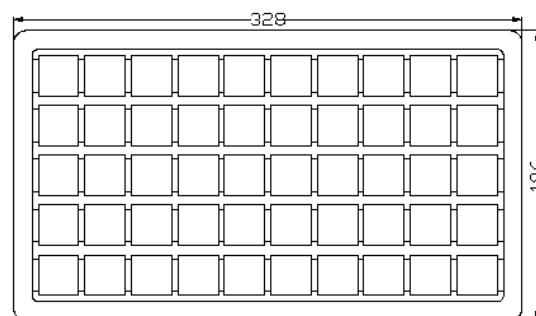
Tolerance: ±0.2mm

Description	Material
Antenna Type	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	9851SC0032-002, $\phi 1.13 \pm 0.1$ mm, L=50mm, L1=36mm
RF Connector	I-PEX
Thickness	7.0mm (Max)

Unit: mm

PACKAGING

Package Type	Quantity
Tray	50 pcs/tray
Vacuum Bag	200pcs/box
Outer Box	1000 pcs/box



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