



Wistron NeWeb Corp.

Antenna Datasheet

Customer Name: Extreme Network

Date: 11/09/2018

Customer P/N	ML2452-APA2-02
WNC P/N	81VEAD15.G02
Description	EXTERNAL WIFI ANTENNA, SMA CONNECTOR, WHITE
Version	A01

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
Elyse Lin	James You	

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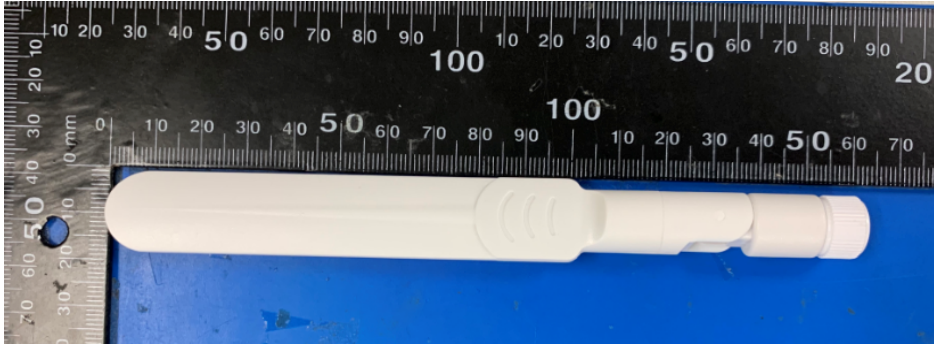
Wistron NeWeb Corp.

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I. Product Specification

Antenna for Dual band system

Antenna photo		
A. Electrical Characteristics		
Frequency	2400 ~ 2500 MHz 5150 ~ 5850 MHz	
V.S.W.R.	@2400 ~ 2500 MHz	<= 1.92
	@5150 ~ 5850 MHz	<= 1.92
Antenna Gain Max / Typ (dBi)	@2400 ~ 2500 MHz	3.04 / 2.73
	@5150 ~ 5350 MHz	4.30 / 4.19
	@5470 ~ 5725 MHz	4.96 / 4.64
	@5725 ~ 5850 MHz	4.96 / 4.95
Antenna Efficiency	80% @ 2400 ~ 2500 MHz 72% @ 5150 ~ 5850 MHz	
Polarization	Linear, Vertical	
Impedance	50 Ohm	
B. Material & Mechanical Characteristics		
Material of Plastic	ABS	
Radome Color	Black	
Cable Type	RG-178	
Connector Type	SMA	

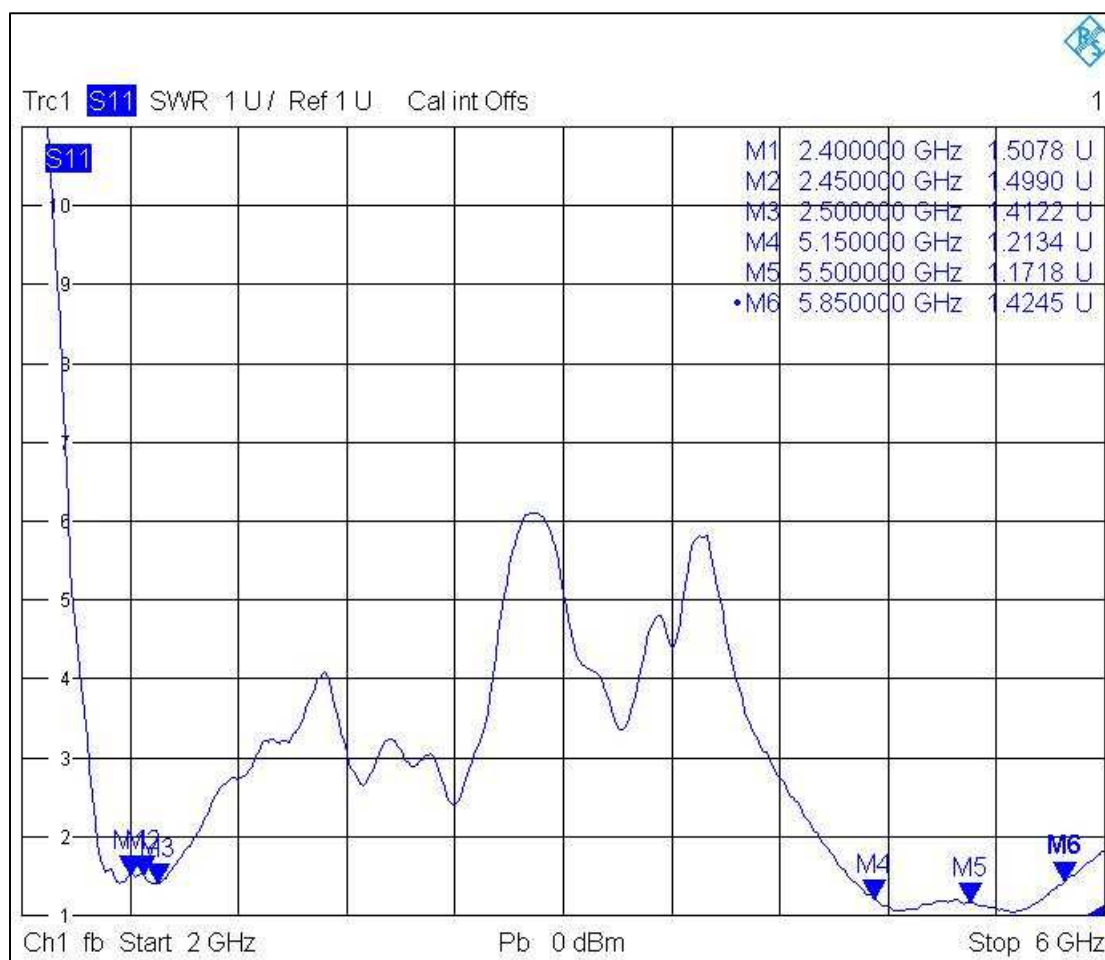
II. Revision History

Date	Version	Change Description
11/09/2018	1	New Release

III. Antenna Performance

A. VSWR

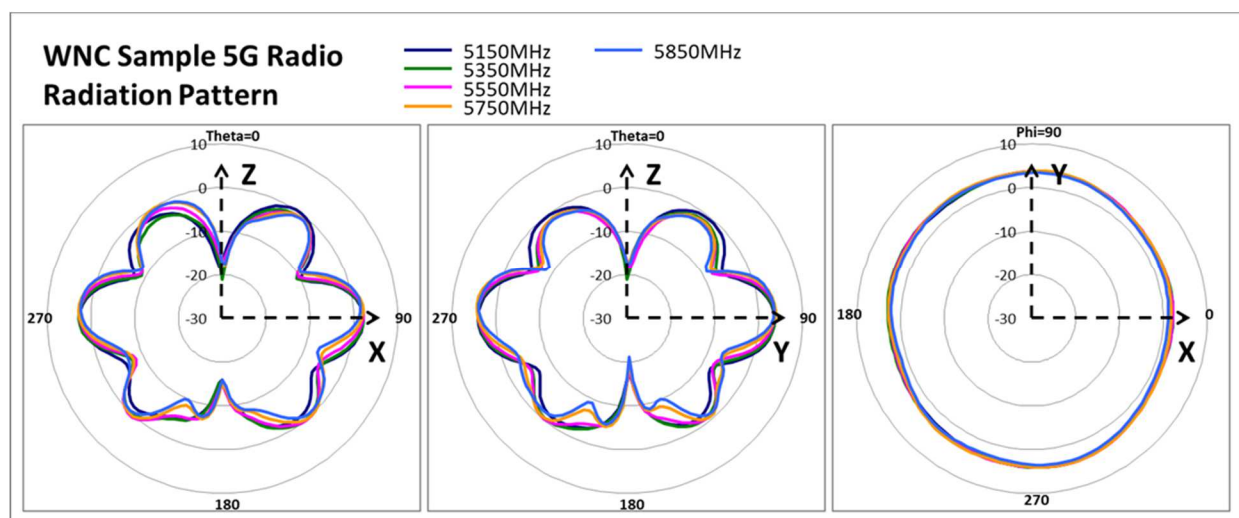
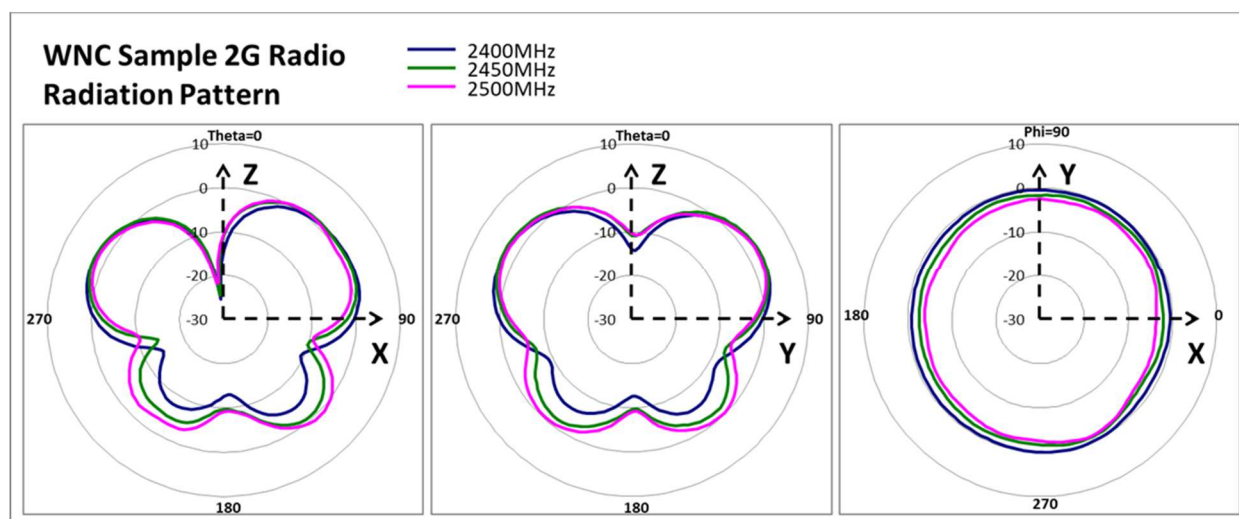
	2400 MHz ~ 2500 MHz	5150 MHz ~ 5850 MHz
VSWR	< 1.92	< 1.92
Return Loss	> 10 dB	> 10 dB



B. Antenna Efficiency and Peak Gain

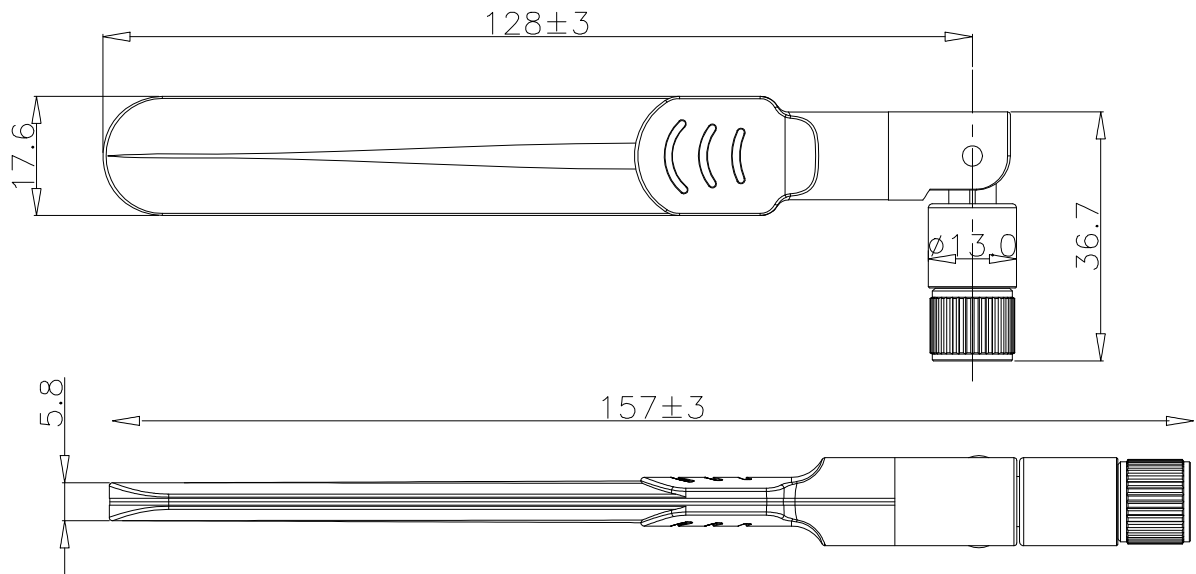
Frequency	2400	2450	2500	Avg.	5150	5350	5470	5550	5725	5750	5850	Avg.
Efficiency	81%	81%	78%	80%	73%	72%	73%	72%	72%	72%	69%	72%
Average Gain (dB)	-0.94	-0.93	-1.07		-1.38	-1.42	-1.38	-1.43	-1.42	-1.44	-1.60	
Peak Gain (dBi)	2.95	3.04	2.19		4.30	4.07	4.44	4.52	4.96	4.95	4.93	

C. Radiation Pattern



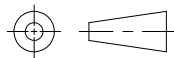
REVISIONS

REV	DESCRIPTION	DATE	APPROVED



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS
ARE IN mm AND TOLERANCES ARE:
INTEGER DIMENSIONS ± 0.2
1 PLACE DECIMAL ± 0.1
2 PLACE DECIMALS ± 0.05
ANGULAR DIMENSIONS ± 1°
HOLES UNDER Ø 5.00 ± 0.05

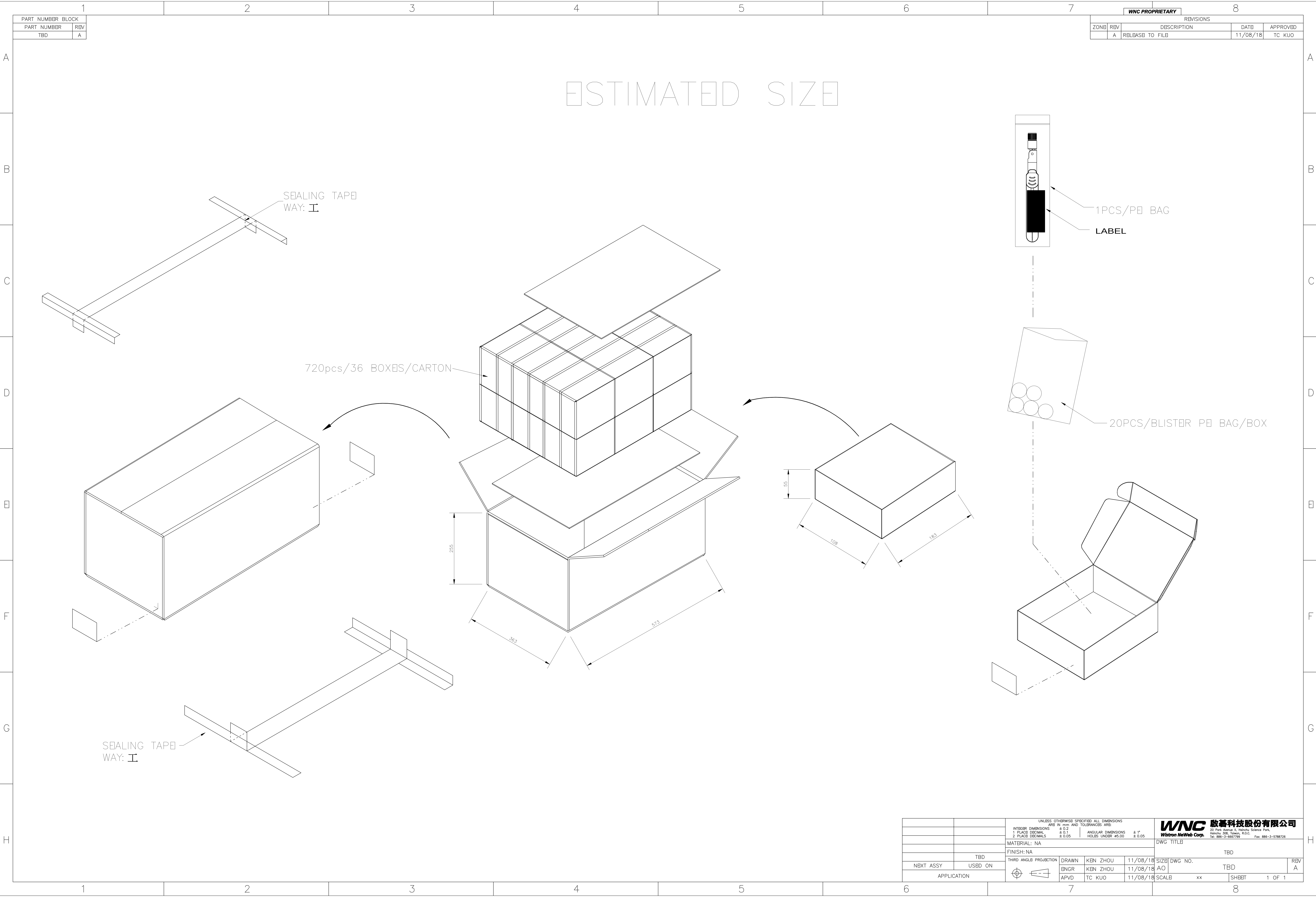
THIRD ANGLE PROJECTION



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DWG TITLE

DRAWN	STANLEY HSU	M/D/Y	10/23/18	SIZE	DWG NO.	81VEAD15.G02	REV	A
ENGR	ELYSE LIN	M/D/Y	10/23/18	A4				
APVD		M/D/Y		SCALE	1/1	SHEET	1 OF 1	



PART NUMBER BLOCK		WNC PROPRIETARY						REVISIONS	
PART NUMBER	REV	DESCRIPTION				DATE	APPROVED		
TBD	A	RELEASE TO FILE				11/08/18	TC KUO		

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN mm AND TOLERANCES ARE:		WNC 啟碁科技股份有限公司			
INTEGER DIMENSIONS	± 0.2	20 Fong Avenue 10, Hsinchu Science Park, Hsinchu 308, Taiwan, R.O.C. Tel: 886-3-5667799 Fax: 886-3-5788726			
1 PLACE DECIMAL	± 0.1				
2 PLACE DECIMALS	± 0.05				
ANGULAR DIMENSIONS					
HOLES UNDER 45.00					
MATERIAL: NA		DWG TITLE			
FINISH: NA		TBD			
THIRD ANGLE PROJECTION		DRAWN	KEN ZHOU	11/08/18	SIZE DWG NO.
		ENGR	KEN ZHOU	11/08/18	AO
		APVD	TC KUO	11/08/18	SCALE
				xx	SHBET 1 OF 1