

## **PCN – Process Change Notification**

Change:	PCS.06.A/ PCSD.06.A	
Date:	2017/11/27	
Author	Rachel Wu	

#### **Affected Products**

Model#	Part Number	Changes	
Havok Penta-Band Cellular Low Profile LTE/ Cellular SMD Dielectric Antenna	PCS.06.A	1. Engineering change: FR4 material change from NP- 140 to IT-180 in order to strengthen material resistance to high temperature for purpose of high temperature reflow.	
LTE / Cellular Low Profile SMD Dielectric Antenna	PCSD.06.A	<ol> <li>Other change: Add PCB batch identifier code.</li> <li>Amend the appearance color.</li> </ol>	

### **Type of Change**

[	] Hardware Modification
[	] Production Process Advance

[X] Others –Amend the PCB material & add batch identifier code & Amend the appearance color.

## **Description of Change**

#### 1. Engineering change:

FR4 material change from NP-140 to IT-180 in order to strengthen material resistance to high temperature for purpose of high temperature reflow

#### 2. Other change:

Add PCB batch identifier code.

3. Amend the appearance color.

#### **Schedule**

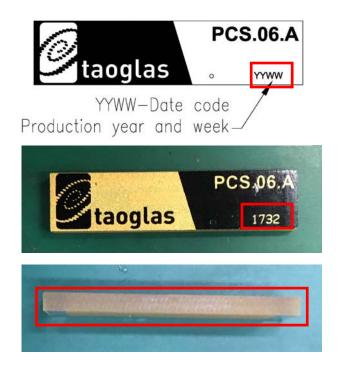
2017, November, Taoglas will provide new drawing rule into production.

# Forecast Estimated Transition Date November /2017

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# **Illustration of Change Old Drawing & Sample**



### **New Drawing & Sample**





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# **Performance Comparison**

	LTE700	GSM850	GSM900	DCS	PCS	UMTS1	LTE2600	
V 25 - 25 - 25	Efficiency							
IT-180	59.08	67.88	57.83	61.77	63.70	60.01	54.54	
NP-140	56.48	64.44	62.98	66.51	63.27	57.15	61.78	

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