

PCN – Process Change Notification

Change:	PCS.06.A/ PCSD.06.A
Date:	2017/11/27
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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. 2. Other change: Add PCB batch identifier code. 3. Amend the appearance color.
LTE / Cellular Low Profile SMD Dielectric Antenna	PCSD.06.A	

Type of Change

Hardware Modification

Production Process Advance

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

Description of Change

- 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
- Other change:
Add PCB batch identifier code.
- Amend the appearance color.

Schedule

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

Forecast Estimated Transition Date

November /2017

**Illustration of Change
Old Drawing & Sample**



New Drawing & Sample



Performance Comparison

	LTE700	GSM850	GSM900	DCS	PCS	UMTS1	LTE2600
	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