

PCN – Process Change Notification

Change:	MA231 Series GNSS Active Circuit Change	
Date:	2017/01/17	
Author	Haley Tsai	

Affected Products

Model#	Part Number	Changes
MA231 Stream 3 in 1 Combination Antenna_ 2G/3G/4G / GPS/GLONASS / WiFi Functions	MA231 All Series	Add another SAW filter in between two LNA components.

Type of Change

[] Hardware Modification

[] Production Process Advance

[X] Others –Add another SAW filter in GNSS active circuit..

Description of Change

Due to the out band rejection level isn't enough on original Pre-SAW filter design, causing to system integration failed on EMI testing. Taoglas added another SAW filter in between two LNA components to solve this problem. Details information are shown in below.

Schedule

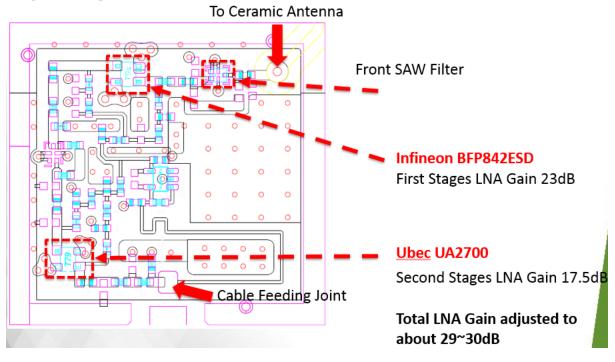
2017, January, Taoglas will adopt into production.

Forecast Estimated Transition Date January /2017

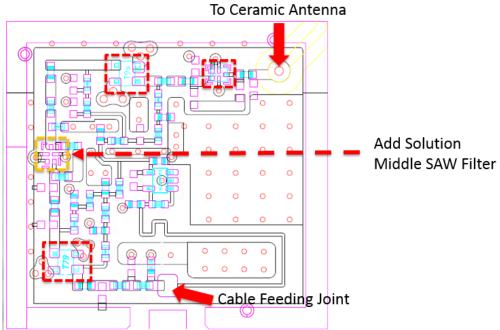


Illustration of Change

Original Design









Evaluate Results,

Original Circuit Out Band Rejection S21 FORMARD TRANSMISSION TRANSMISSION/REFLECTION CHN1 LOG MAGNITUDE +REF+0.000 dB 10.000 dB/DIV 1 820,000 000 000 MH2 2 10.000 000 MH2 1 575.420 MH2 1 575

New Solution Out Band Rejection

