

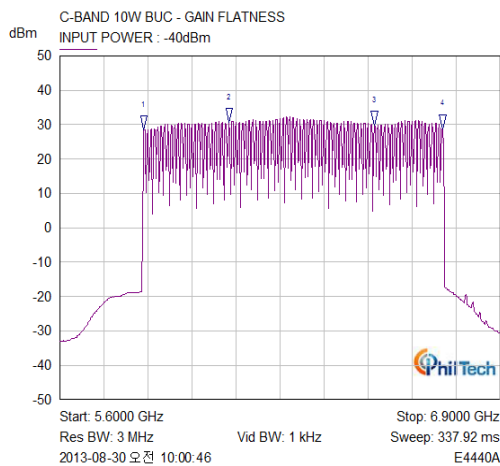


TEST DATA

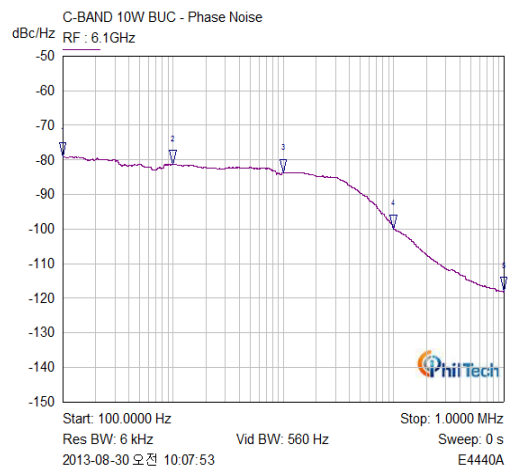
PHILTECH	
DATE	2013-08-30
MODEL	PTB-CE10N
Serial NO.	PTBC130809

Item	Test Result	Test Condition
RF Frequency Range	5.85 ~ 6.725 GHz	
IF Frequency Range	950 ~ 1,825 MHz	
LO Frequency	4.9 GHz	
P _{1dB}	41.13 dBm	@ 5.85 GHz (IF : 0.95 GHz)
	40.78 dBm	@ 6.1 GHz (IF : 1.2 GHz)
	41.12 dBm	@ 6.425 GHz (IF : 1.525 GHz)
	40.94 dBm	@ 6.725 GHz (IF : 1.825 GHz)
Gain nom.	69 dB	
Gain Flatness	Refer to below graph	room temp over full band
IMD3 @ 37dBm Output power (SCL : 34dBm each, two equal signals 5MHz apart)	-34.72 dBc	@ 5.85 GHz (IF : 0.95 GHz)
	-34.47 dBc	@ 6.1 GHz (IF : 1.2 GHz)
	-33.92 dBc	@ 6.425 GHz (IF : 1.525 GHz)
	-30.52 dBc	@ 6.725 GHz (IF : 1.825 GHz)
Phase Noise	-78.98 dBc	@ 100 Hz
	-81.38 dBc	@ 1 kHz
	-83.76 dBc	@ 10 kHz
	-99.95 dBc	@ 100 kHz
	-118.06 dBc	@ 1 MHz
Current Consumption (48 VDC Input)	1.27 A	@ No RF Power
	1.25 A	@ 37dBm Output Power (IF:0.95 GHz)
	1.3 A	@ 40dBm Output Power (IF:0.95 GHz)

Gain Flatness & Phase Noise



Mkr	Trace	X-Axis	Value	Notes
1	INPUT POWER : -40dBm	5.8482 GHz	28.45 dBm	
2	INPUT POWER : -40dBm	6.1005 GHz	30.60 dBm	
3	INPUT POWER : -40dBm	6.5295 GHz	29.81 dBm	
4	INPUT POWER : -40dBm	6.7310 GHz	28.91 dBm	



Mkr	Trace	X-Axis	Value	Notes
1	RF : 6.1GHz	100.0000 Hz	-78.98 dBc/Hz	
2	RF : 6.1GHz	1.0000 kHz	-81.38 dBc/Hz	
3	RF : 6.1GHz	10.0000 kHz	-83.76 dBc/Hz	
4	RF : 6.1GHz	100.0000 kHz	-99.95 dBc/Hz	
5	RF : 6.1GHz	1.0000 MHz	-118.06 dBc/Hz	

RF : 6.1GHz

Measurement Parameter	Value
Carrier Power	1.51 dBm
Carrier Frequency	6.10 GHz
RMS Phase Noise over the entire smoothed trace	1.14 degs
RMS Phase Noise over the entire smoothed trace	19.83 mradians
Residual FM over the entire smoothed trace	1.45 kHz
Spot Noise at the Start Offset Frequency	-78.98 dBc/Hz
Spot Noise at the Stop Offset Frequency	-118.06 dBc/Hz