

3410MHz~3800MHz Band Pass Filter

(PN: W23AA0202)

APPLICATION SUMMARY

This Sub 6GHz Band Pass Filter is widely applied in 5G Massive MIMO application, with small cavity and advanced light-weight design technique to ensure long term reliability and stable performance under various temperature conditions, with great gains to balance the power consumption of RU system and fast-easy carrier network deployment.

TECHNICAL KEY FEATURES

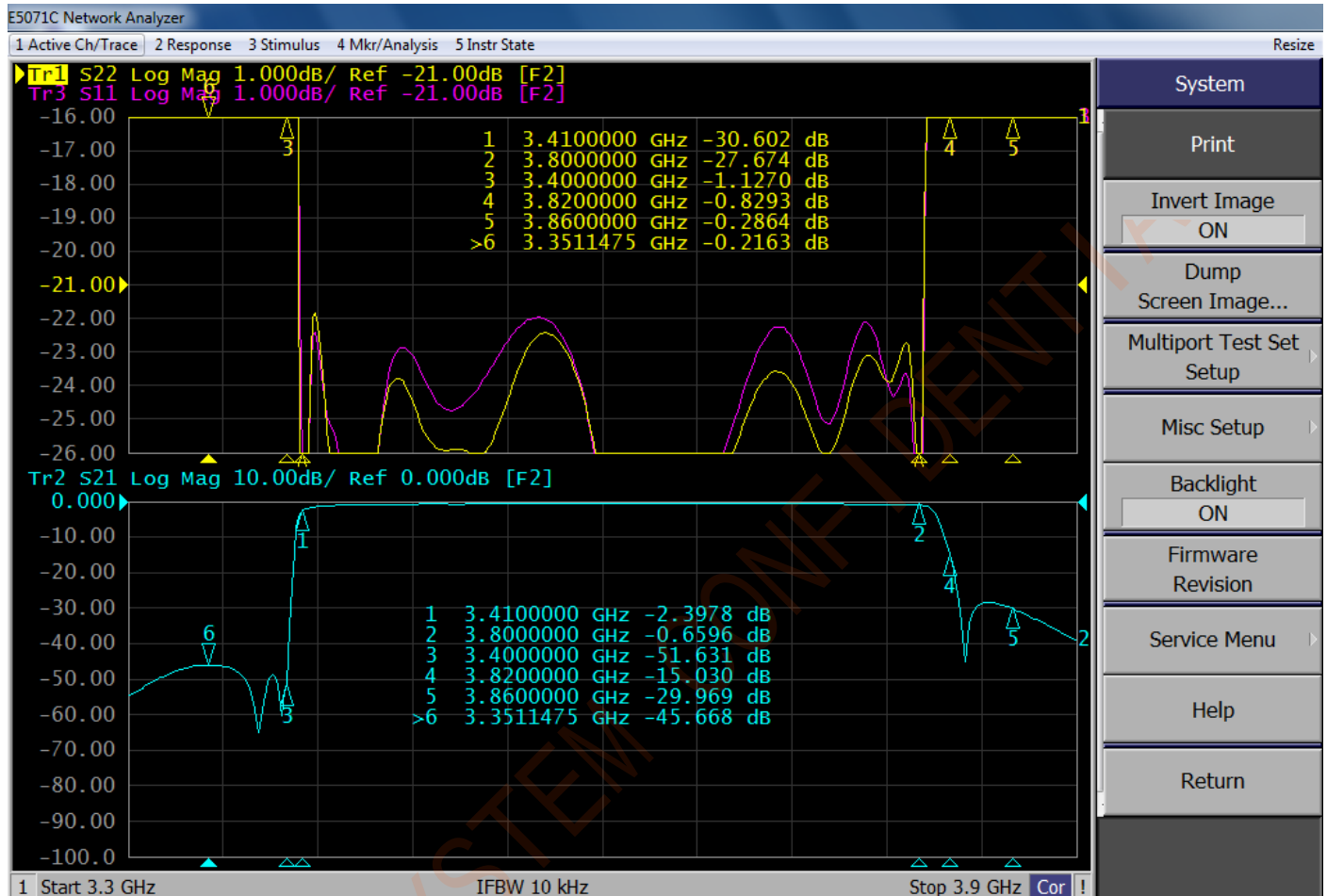
- Low insertion loss
- Wide Band
- Very sharp attenuation frequency slope
- Steep and far-end harmonic attenuations
- Small size and extremely light weight
- High stability and long life design by small metal cavity
- High Power (peak)
- Stable temperature shift and long term reliability
- Reliable mass production feasibility with competitive cost advantages
- More Channels expandable easily
- IN/OUT design with DC-Block function for the benefit of RU system

ELECTRICAL SPECIFICATIONS

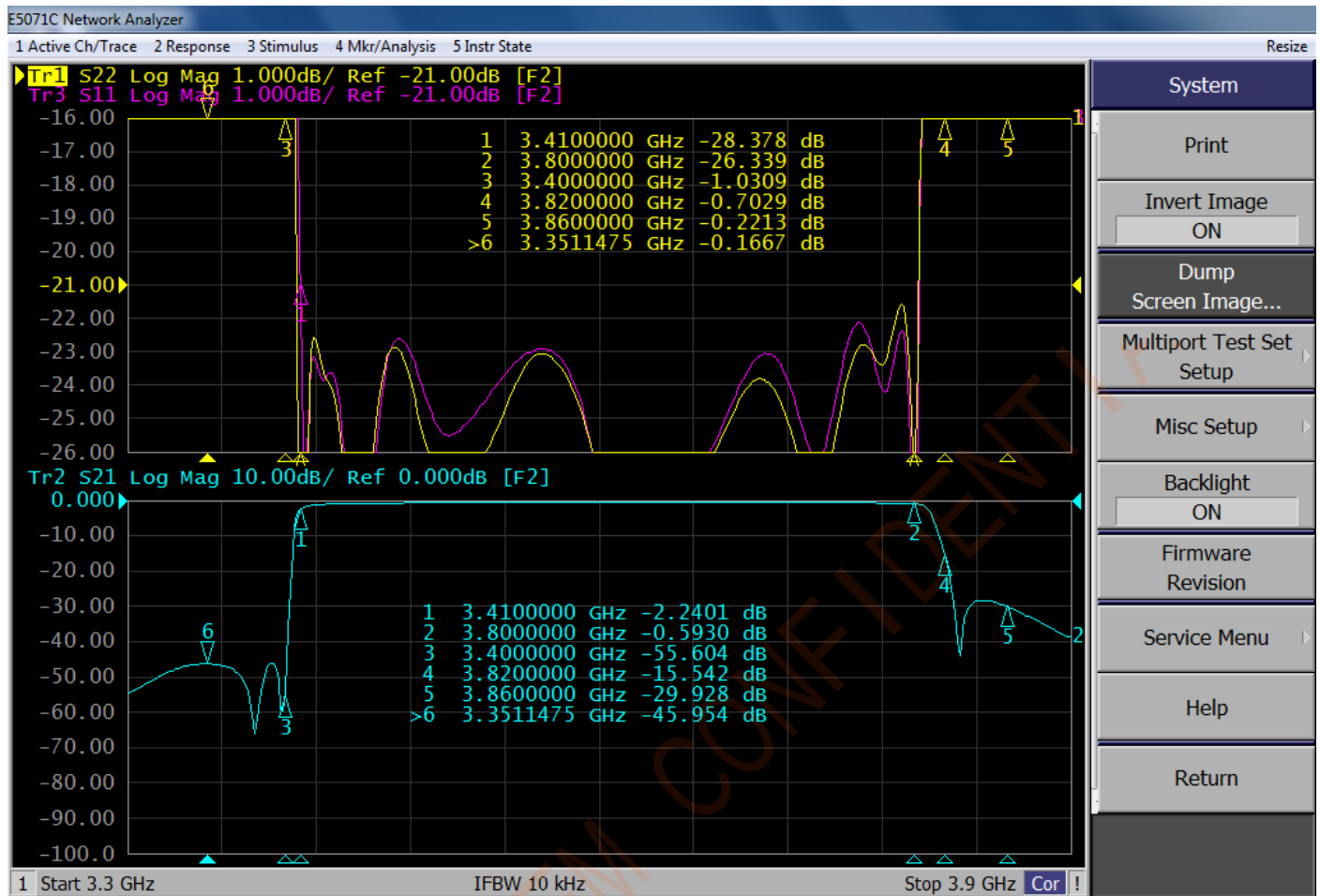
No.	Parameter		Specifications
1	Passband Frequency Range		3410MHz ~ 3800MHz
2	Bandwidth (MHz)		390MHz
3	Insertion Loss		3.0dB max @Full temperature
4	Max. Slope (MHz) @low freq.		10MHz
5	Attenuation	DC ~ 3400MHz	≥45dB
		3820 ~ 3840MHz	≥10dB
		3840 ~ 3860MHz	≥16dB
		3860 ~ 4400MHz	≥28dB
		4400 ~ 20000MHz	≥30dB
6	Return Loss		18dB min @ Full temperature
7	Pass Band Ripple, Typ (P-P)		2.6dB max @ Full temperature
8	Input Power		42dBm(Average) / 51dBm(Peak)
9	In/Out Impedance		50Ω
10	Input/ Output connector		SMA-Female
11	Surface Finish		Silver Plating
12	Operating Temperature Range		-40°C to +95°C
13	Relative humidity		35~95% (at +50degC)
14	Dimensions (L*W*H, mm)		100.5*36*19.4mm *Excluding the length of SMA-F connector *Excluding the height of tuning screws
15	Weight		87.3g

RF Test CURE

Measurements (+25degC)



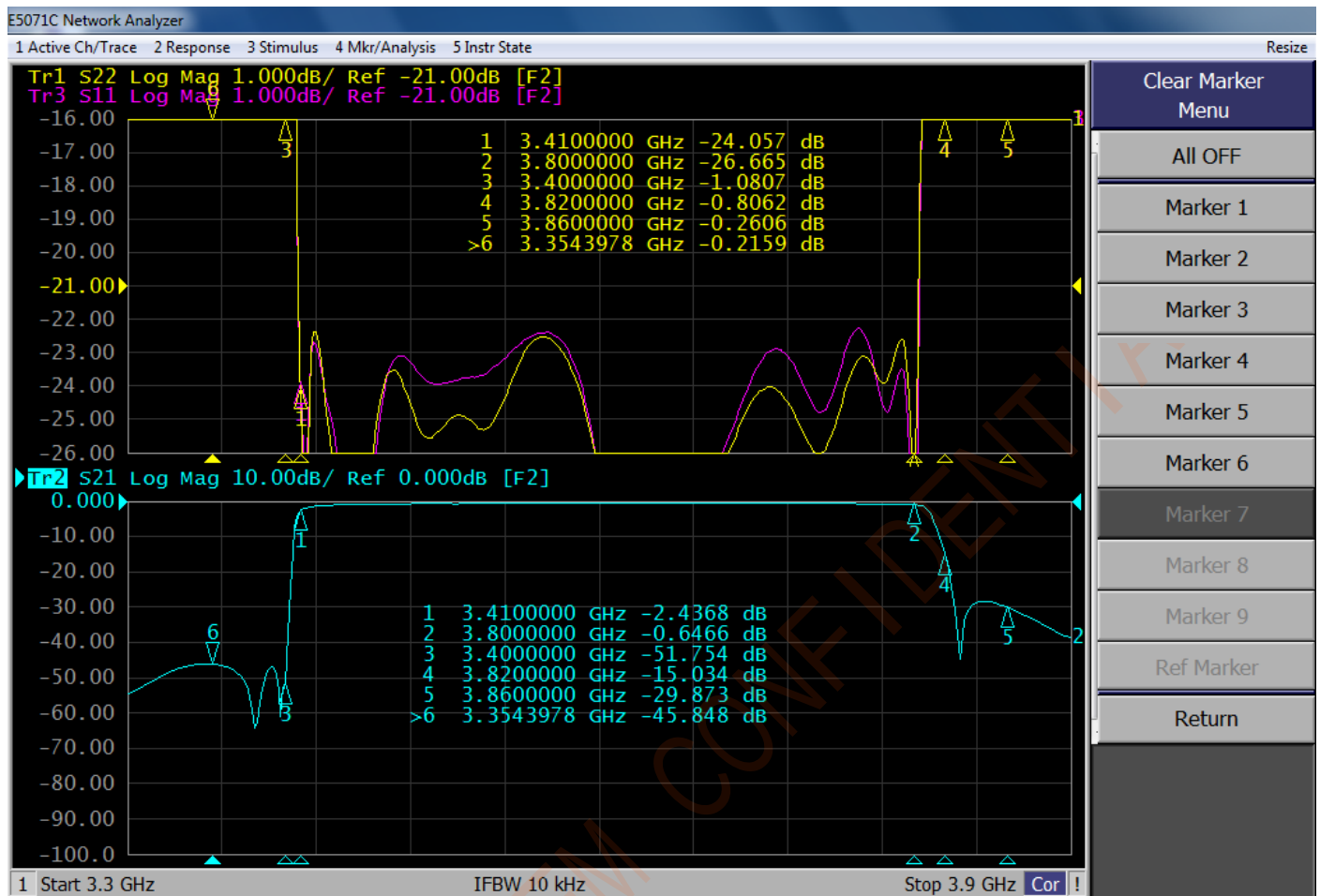
Measurements (-40degC)



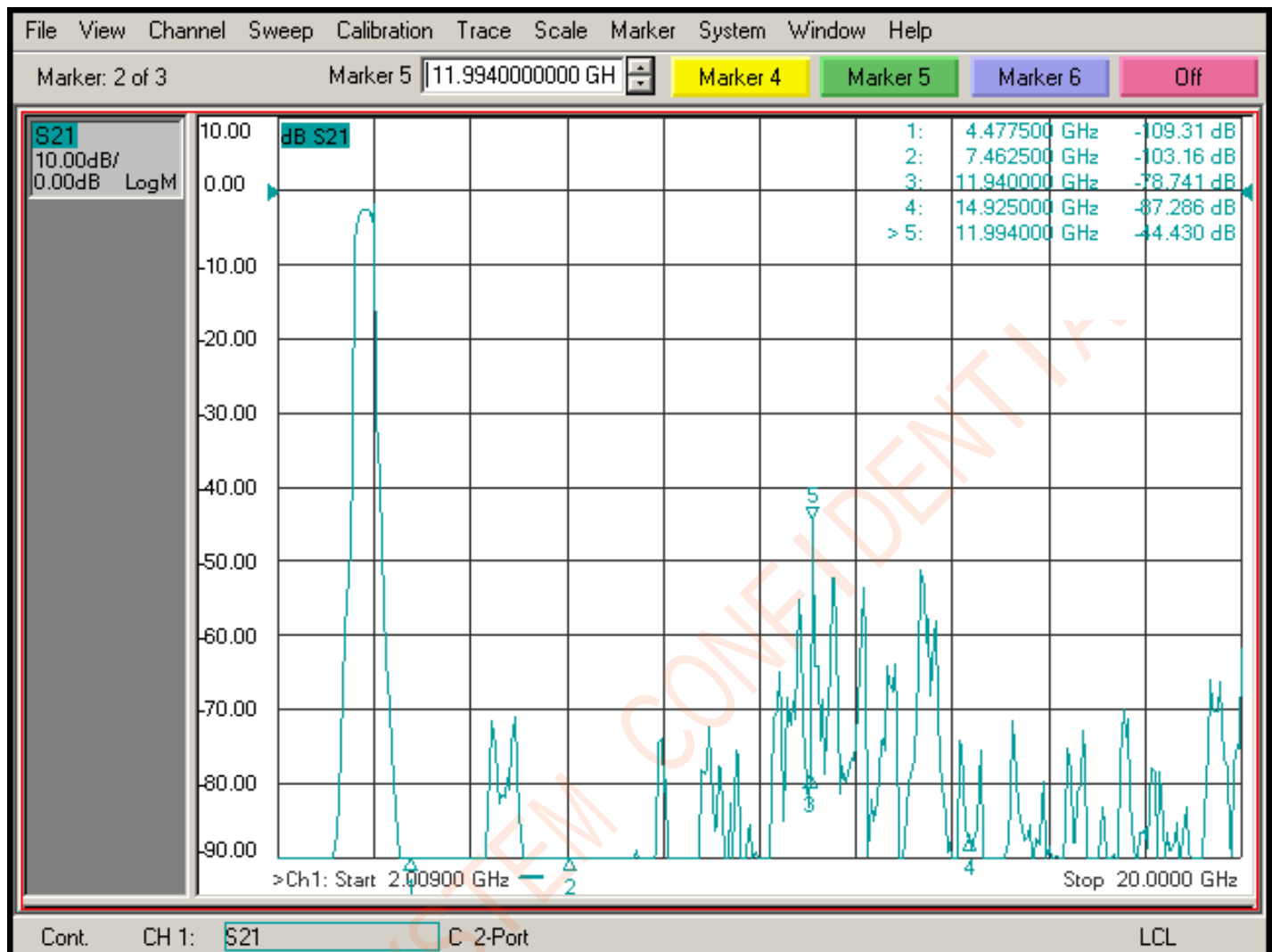
Measurements (+95degC)



Measurements (+25degC return)



Measurements (Rejection $\geq 4400\text{MHz}$)



MECHANICAL SPECIFICATIONS



LABEL SPECIFICATIONS

Stick the following label on a product.

*Customized label requirement from customer are acceptable.

**Label contents and size are subject to change upon final product outline and design.

[WICT Code]	[Frequency Range]	[UNIT NAME]
[Serial Number]	Bar Code	
[Company Name]	[Manufactured Country]	

Example

W21AA0056	2110-2170MHz	BRF
S/N: 22050001	Bar Code	
WICT System Co., Ltd	MADE IN CHINA	

The year (2digits) and week (2digits) of manufacturing and serial number (4digits)

Bar code information:

WICT Code and Serial number

Example: W21AA0056 22050001

HAZARDOUS MATERIALS

This product conforms to the requirements of RoHS.

QUALITY SPECIFICATIONS

Satisfy below quality specifications:

1. There shall not be corrosion of material.
2. Finger-print, oily surface and duty mark shall not be left.
3. There shall not be peeling, blistering and crack of plating.
4. Sharp edge burrs shall not be left.
5. There shall not be partial deformation.