

AnyDATA.NET

APPROVAL SHEET

ITEM : HW - 3BM - SMA

FREQUENCY : TRIPLE MAGNET-ANTENNA

FOR CDMA/USPCS/GPS

HANUL Technology

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ANTENNA SPECITICATION

1. ITEM : HW-3BM-SMA

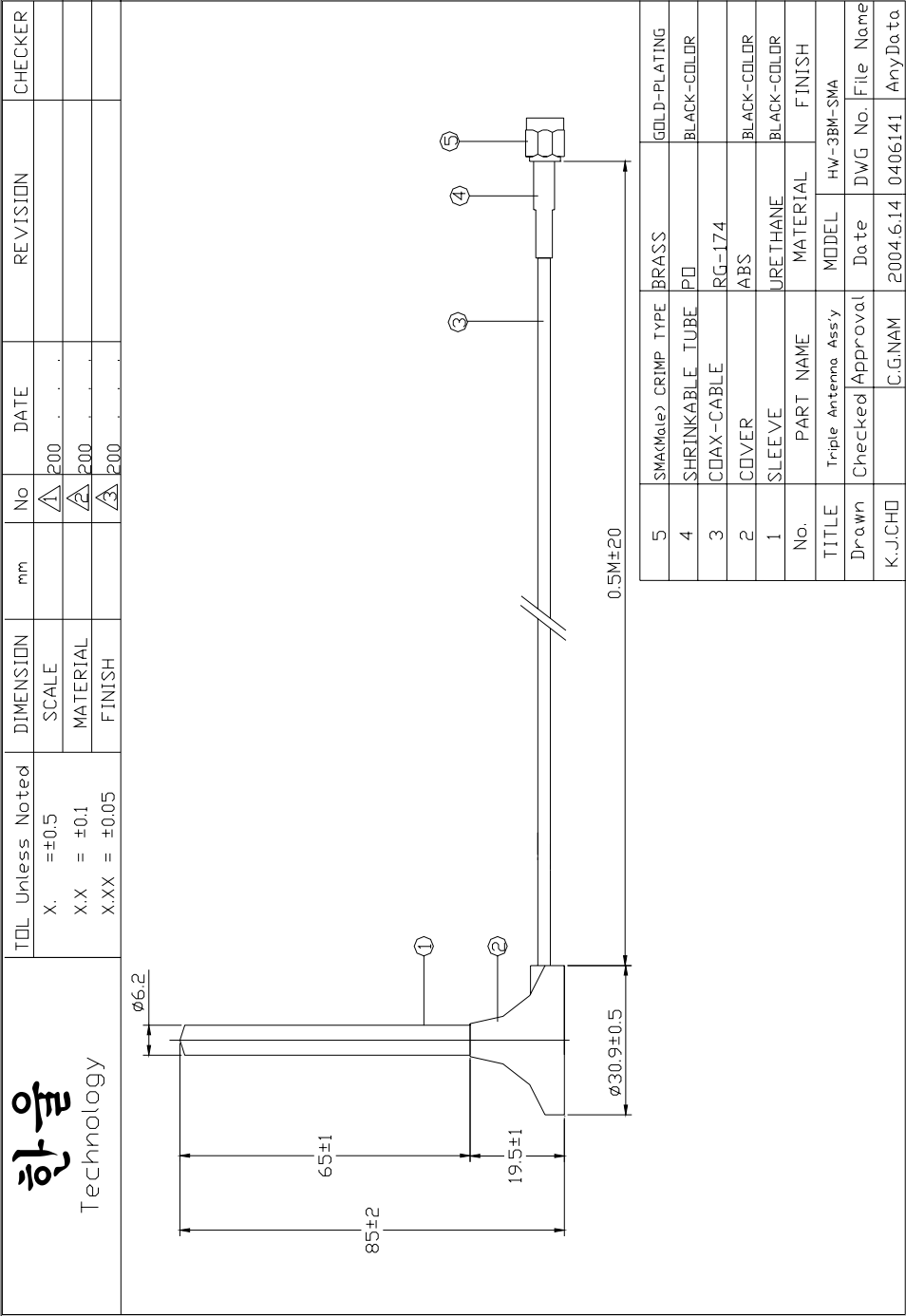
2. Electrical Specifications

No.	ELECTRICAL DATA	SPECIFICATIONS		REMARK
2.1	RESONANCE FREQUENCY	AMPS	824MHz-894MHz	
		GPS	1575MHz	
		UPPCS	1850MHz-1990MHz	
2.2	IMPEDANCE	50 Ω NOMINAL		
2.3	GAIN	CDMA	+ 1dBi	Peak
		GPS	-4dBi	
		USPCS	+ 1dBi	
2.4	ELECTRICAL LENGTH	1/4 λ		
2.5	RADIATION PATTERN	OMNI – DIRECTIONAL		
2.6	POLARIZATION	VERTICAL		

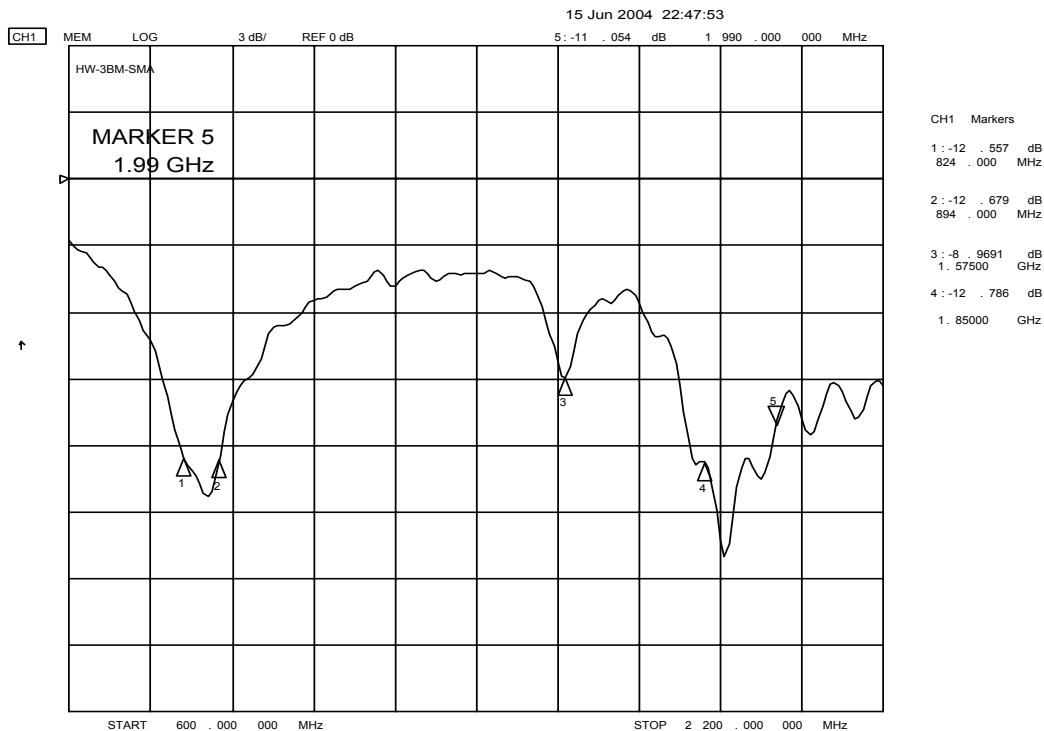
3. Mechanical Specifications

No.	MECHANICAL	SPECIFICATIONS	REMARK
3.1	ELEMENT	Ø0.5-PWG	Ni-PLATING
3.2	SLEEVE	URETHANE	BLACK-COLOR
3.3	COVER	ABS	BLACK-COLOR
3.4	CONNECTOR	SMA(Male)	GOLD- PLATING
3.5	TOTAL LENGTH	85 $\pm$ 2.0 mm	

4. Antenna Configuration

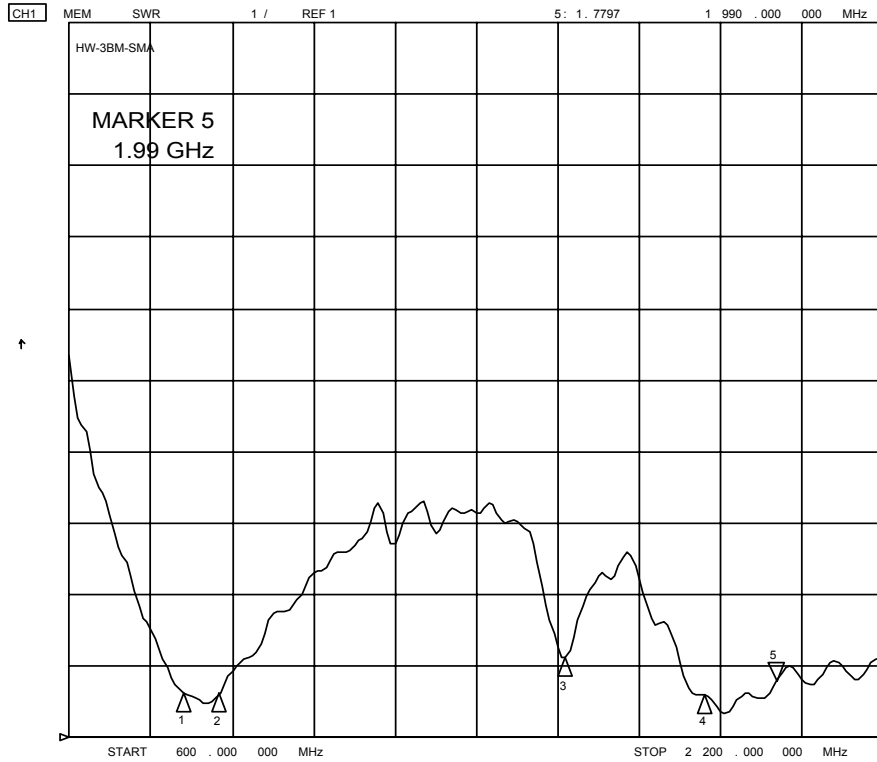


5. Measurement Result



MARKER PARAM	Channel 1	Channel 2	Channel 3	Channel 4
MARKER 1	824 . 000000MHz -12 . 557 dB	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 2	894 . 000000MHz -12 . 679 dB	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 3	1575 . 000000MHz -8 . 9691 dB	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 4	1850 . 000000MHz -12 . 786 dB	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 5	1990 . 000000MHz -11 . 054 dB	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MKR STIM OFFSET	0. 000000MHz 0 dB	0. 000000MHz 0 dB	0. 000000MHz . 0000 dB	0. 000000MHz 0 dB
REFERENCE MARKER	OFF	OFF	OFF	OFF
PLACEMENT	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
MARKER SEARCH	OFF	OFF	OFF	OFF
TARGET VALUE	-3 dB	-3 dB	-3 dB	-3 dB
MKR WIDTH VALUE	-3 dB	-3 dB	-3 dB	-3 dB
	OFF	OFF	OFF	OFF
MARKER TRACKING	OFF	OFF	OFF	OFF
SMOOTH APERTURE	1 % SPAN	1 % SPAN	1 % SPAN	1 % SPAN
	OFF	OFF	OFF	OFF
PHASE OFFSET	0 °	0 °	0 °	0 °
ELECTRICAL DELAY	0 s	0 s	0 s	0 s

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CH1 Markers

1: 1. 6163
824 . 000 MHz

2: 1. 6068
894 . 000 MHz

3: 2. 1059
1. 57500 GHz

4: 1. 5957
1. 85000 GHz

MARKER PARAM	Channel 1	Channel 2	Channel 3	Channel 4
MARKER 1	824 . 000000MHz 1. 6163	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 2	894 . 000000MHz 1. 6068	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 3	1575 . 000000MHz 2. 1059	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 4	1850 . 000000MHz 1. 5957	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MARKER 5	1990 . 000000MHz 1. 7797	0. 000000MHz OFF	0. 000000MHz OFF	0. 000000MHz OFF
MKR STIM OFFSET	0. 000000MHz 0	0. 000000MHz 0 dB	0. 000000MHz . 0000 dB	0. 000000MHz 0 dB
REFERENCE MARKER	OFF	OFF	OFF	OFF
PLACEMENT	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS
MARKER SEARCH	OFF	OFF	OFF	OFF
TARGET VALUE	-3	-3 dB	-3 dB	-3 dB
MKR WIDTH VALUE	-3	-3 dB	-3 dB	-3 dB
	OFF	OFF	OFF	OFF
MARKER TRACKING	OFF	OFF	OFF	OFF
SMOOTH APERTURE	1 % SPAN	1 % SPAN	1 % SPAN	1 % SPAN
	OFF	OFF	OFF	OFF
PHASE OFFSET	0 °	0 °	0 °	0 °
ELECTRICAL DELAY	0 s	0 s	0 s	0 s