

PART NO. : WV-0921TMA-T-01**◆ APPLICATION**

- Failsafe LNA bypass supports soft degradation in case of power failure
- Lightning protection, thanks to a built-in multi-stage surge suppressor

◆ FEATURE

- > High Reliability,
- > **RoHS Compliance**

◆ ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
GSM900-Downlink	
Frequency Range	935MHz ~ 960MHz
Return Loss, All Ports	18dB Min
Insertion Loss	0.3dB Typical
Flatness	0.3dB Typical
Input Power Rating – RMS, watts	200Watts Max
PIMD	120dBm , 2-Tone 43dBm carriers
GSM900-Uplink	
Frequency Range	890MHz ~ 915MHz
Tx band Rejection	80.0dB Min
RF Gain(ripple Included), nominal	12.0dB ~ 14.0dB (±1.0dB)
Noise Figure	1.4dB Typical
Input 1dB Compression point	2dBm Typical
Output IP3	+ 22dBm Typical
Return Loss	18.0dB Min
Insertion Loss(Bypass mode)	1.5dB Typical
Return Loss (Bypass Mode)	15.0dB Min
Bypass Mode	Yes
DC Supply Voltage	10V to 18V DC
Operating Current Consumption	160mA
DC Injection	Via to BASE Connector
Input/Output Impedance	50 Ohm nominal
MTBF	>1 million hours

ITEM	Specification
UMTS-Uplink	
Frequency Range	1920MHz ~ 1980MHz
Return Loss	18dB Min 14dB Min (Bypass mode)
Nominal Gain	12dB to 14dB $\pm$ 1.0dB
Passband Ripple	0.6dB Typical, 1.0dB Max
Noise Figure	1.5dB Typical
Tx-Band Rejection, relative to gain level	80dB Min
Output 3 rd order intercept point(IP3)	+25dBm Typical, +22dBm Min
Insertion Loss bypass mode	1.8dB Typical
Supply voltage, fed via the RF Cable	12V DC nominal @120mA(8-31V DC)
Total Group Delay	150nS Max
UMTS-Downlink	
Frequency Range	2110MHz ~ 2170MHz
Insertion Loss	0.5dB Typical
Return Loss	18.0dB Min
Rx-Rejection	60dB Min
Average Operating Power	+53dBm(200W) Max
Power Handling Survival	+57dBm(500W) Max
3 rd Order PIM in TX Band @ BTS Port	-120dBm @ 43dBm 2 Tone
Input/Output Impedance	50 Ohm nominal

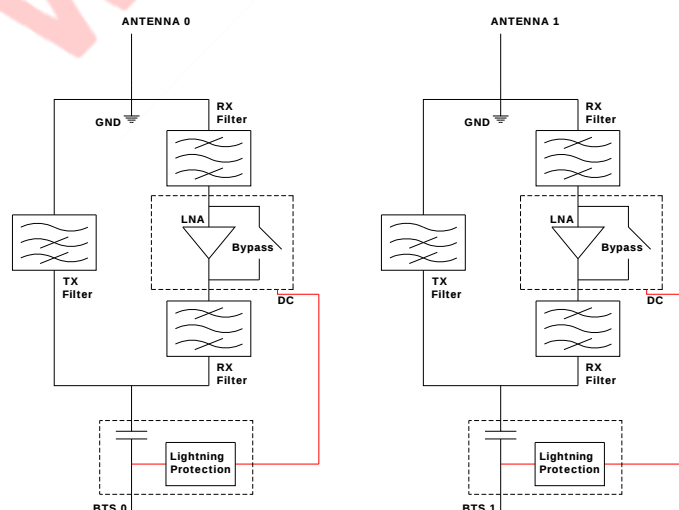
◆ ENVIRONMENTAL SPECIFICATIONS

ITEM	SPECIFICATION
Operating Temperature Range	-40°C to +65°C
Relative Humidity	100 %
Weather Protection	IP-68
Lightning Protection	BTS Port : 8/20uS 5kA Antenna Port : DC GND
Wind load @115km/h(70mph)	46(10) N(lbf)
Wind Speed	>200(>55), km/h(m/s)
Operational	ETS 300 019-1-4
Transportation	ETS 300 019-1-2
Storage	ETS 300 019-1-11

◆ MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION
Dimension	227.0 x 257.0 x 87.4(Unit:mm)
Weight	Around 9.0Kg
Mounting Points	See Outline Drawing
RF Connector	BTS0,1 & Antenna0,1 Ports : 7/16 DIN Female Connector Long Neck
Connector Position	See Outline Drawing
Finish	Gray color coating
Mounting Brackets	Included, for pole and wall mounting
Grounding cable	Included, 1mt of tin plated cooper AWG7 with terminals in both ends
Mounting Clamp	Diameter 6 inch – 2EA

◆ BLOCK DIAGRAM



◆ OUTLINE DRAWING

