PART NO. : WV-TMA-GSM850-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
TX	
Frequency Range	869MHz ~ 894MHz
Return Loss, All Ports	19dB Min
Insertion Loss	0.5dB Typical
Input Power Rating – RMS, watts	55dBm Max(316W)
Input Power Rating – PEP, watts	420Watts Max
IMD @antenna port	-76dBm , 2-Tone 42dBm carriers
RX	
Frequency Range	824MHz ~ 849MHz
Tx band Rejection	90.0dB Min
RF Gain(ripple Included), nominal	12.0dB±1.0dB
Noise Figure	1.9dB Typical
Input 1dB Compression point	2dBm Typical
IIP3	+12dBm Typical
Return Loss	19.0dB Min
Attenuation	30dBc Min@851MHz 15dBc Min@851MHz~866MHz
IMD @antenna port	-115dBm , 2-Tone 42dBm carriers
Insertion Loss(Bypass mode)	2.3dB Typical
Return Loss (Bypass Mode)	15.0dB Min
Bypass Mode	Yes
DC Supply Voltage	10V to 18V DC
Operating Current Consumption	180mA Max @ per LNA
DC Injection	Via to BASE Connector
Input/Output Impedance	50 Ohm nominal
MTBF	>1 millon hours

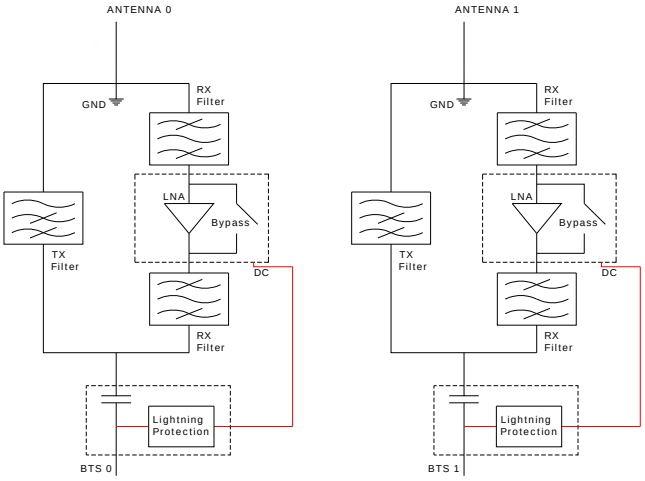
◈ ENVIRONMENTAL SPECIFICATIONS

ITEM	SPECIFICATION
Operating Temperature Range	-40°C to+65°C
Relative Humidity	100%
Weather Protection	IP-68
Lightning Protection	IEC 1024
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 139.0 x 131.0(Unit:mm)
Weight	Around 15.0Kg
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