

PART NO. : WV-TMA190-S-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	1805MHz ~ 1880MHz
Return Loss, All Ports	18dB Min
Insertion Loss	0.5dB Typical
Flatness	0.3dB Max
Input Power Rating – RMS, watts	200Watts Max
PIMD	110dBm , 2-Tone 43dBm carriers
RX	
Frequency Range	1710MHz ~ 1785MHz
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	180mA
DC Injection	Via to BASE Connector
Input/Output Impedance	50 Ohm nominal
MTBF	>1 million hours

◆ 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

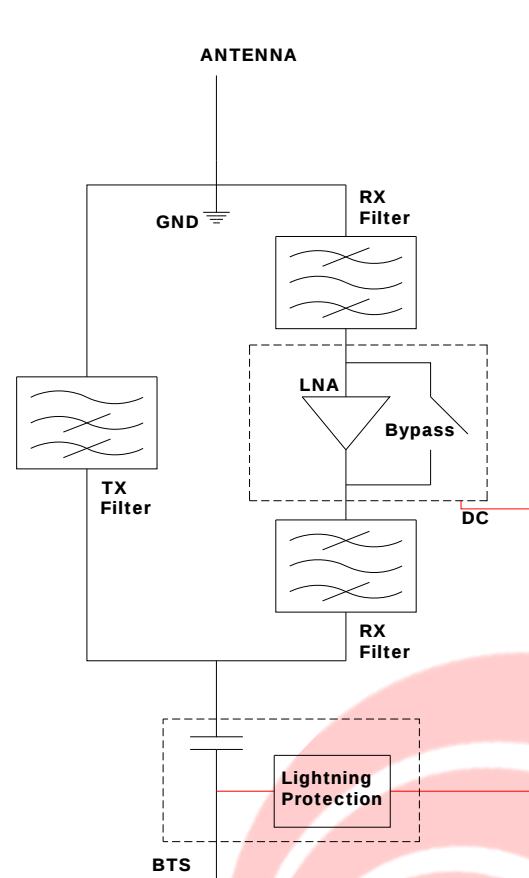
◆ MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION
Dimension	242.0 x 135.0 x 66.0(Unit:mm)
Mounting Points	See Outline Drawing
RF Connector	BTS & Antenna Ports : 7/16 DIN Female Connector Long Neck
Connector Position	See Outline Drawing
Finish	Gray color coating
Silkscreening	According to Cellcom specifications (TBD)
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

◆ PACKING

ITEM	SPECIFICATION
Environmental	To meet Transportation and Storage specified above
Crate	Outside marking according to Cellcom specifications (TBD)
Box content	TMA, mounting brackets and grounding cable, no other material or document inside unless specified by Cellcom

◆ BLOCK DIAGRAM



◆ OUTLINE DRAWING

