

SINGLE-DUAL BAND TMA

PART NO. : WV-1800UMTS-SD01

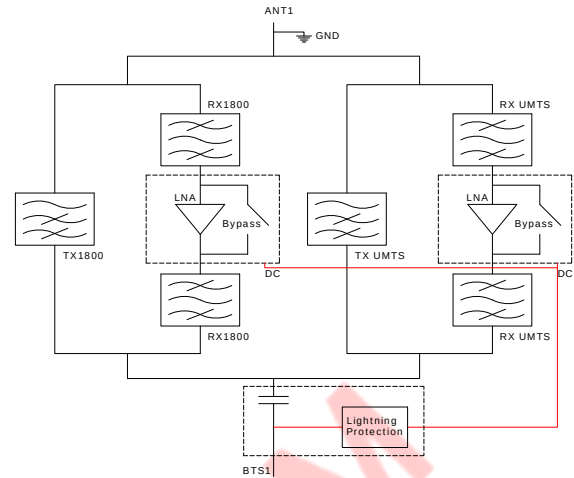
◆ APPLICATION

> For DCS1800/UMTS2100 Band System

◆ FEATURE

- > High Reliability
- > RoHS Compliance

◆ BLOCK DIAGRAM



◆ ELECTRICAL SPECIFICATION

ITEM	Specification
DCS1800-Downlink	
Frequency Range	1805MHz ~ 1880MHz
Return Loss, All Ports	18dB Min
Insertion Loss	0.5dB Typical
Insertion Loss Variation	0.4dB Max
Continuous Average Power	200Watt Max
Intermodulation 2x43dBm Tx Carriers BTS Port	-107dBm Max In Rx Band, ANT Port
DCS1800-Uplink	
Frequency Range	1710MHz ~ 1785MHz
Gain	12dB ±1.0dB
Gain Ripple	1.0dB Max
Insertion Loss(Bypass mode)	2.0dB Typical
Return Loss, All Ports	18dB Min
Return Loss, All Ports(Bypass mode)	14dB Min
Noise Figure	1.5dB Typical, 1.85dB Max
OIP3	+25dBm Typical, +22dBm Min
DC Supply Voltage	12V nominal(+8V ~ +31V DC)
DC Supply Current, Normal Mode	165mA typ.
Alarm	See Alarm Condition Table
Input/Output Impedance	50 Ohm nominal

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ITEM	Specification
UMTS2100-Downlink	
Frequency Range	2110MHz ~ 2170MHz
Return Loss, All Ports	18dB Min
Insertion Loss	0.3dB Typical
Insertion Loss Variation	0.2dB Max
Continuous Average Power	200Watt Max
Intermodulation 2x43dBm Tx Carriers BTS Port	-117dBm Max In Rx Band, ANT Port
UMTS2100-Uplink	
Frequency Range	1920MHz ~ 1980MHz
Gain	12dB ±1.0dB
Gain Ripple	1.0dB Max
Insertion Loss(Bypass mode)	2.0dB Typical
Return Loss, All Ports	18dB Min
Return Loss, All Ports(Bypass mode)	14dB Min
Noise Figure	1.6dB Typical, 1.85dB Max
OIP3	+25dBm Typical, +22dBm Min
DC Supply Voltage	12V nominal(+8V ~ +31V DC)
DC Supply Current, Normal Mode	165mA typ.
Alarm	See Alarm Condition Table
Input/Output Impedance	50 Ohm nominal

◆ MISCELLANEOUS

ITEM	SPECIFICATION
Alarm Function	Two levels automatic by-pass
EMC and safety	FCC part 15, 24. ETL recognized
Power Consumption	2W Max
MTBF	>500,000 hours

◆ ENVIRONMENTAL SPECIFICATIONS

ITEM	SPECIFICATION
Operating Temperature Range	-40°C to+65°C
Lightning Protection	3 kA, 10/350 µs max. to IEC1312-1
Ingress Protection	DIN 400 50: IP67. ETS 300 019-1-4

SINGLE-DUAL BAND TMA

◆ MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION
Dimension	250.0 x 160.0 x 72.0 (Unit:mm) 342.0 x 160.0 x 82.0 (Unit:mm) with Bracket
Weight	Approximate 8.0Kg
RF Connector	All RF Ports : DIN Female Connector
Mounting	Vertical pole/Wall

◆ OUTLINE DRAWING

