

P/N :RMC836 881.75D18M01

1-1. FEATURES

- ▶ HIGH PERFORMANCE
- ▶ HIGH RELIABILITY
- ▶ Coaxial TYPE
- ▶ Duplexer
- ▶ RoHS Compliant

1-2. Electrical Specifications

ITEM			
1) Frequency range	Tx:875MHz~888.5MHz (BW=13.5M)	Rx:827MHz~845MHz(BW=18M)	
2) Insertion Loss	2.5dB Max, 2.3dB Typ,	1.0dB Max, 0.9dB Typ	
3) Return Loss	20dB Min	20dB Min	
4) Passband Ripple	1.5dB Max	0.5dB Max	
5A) Monitoring Port 1(2) Coupling	-29.5dB±0.5dB Relative to Tx and Rx insertion Loss. The specified coupling level should track the Insertion Loss by ±0.25dB over the Tx/Rx passbands		
5B) Monitoring Port 2(2) Coupling	-26.0dB±0.5dB Relative to Tx and Rx insertion Loss The specified coupling level should track the Insertion Loss by ±0.25dB over the Tx/Rx passbands		
6) Isolation	80dB Min, 85dB Typ.		
7) Rejection	80dB Min@DC~845MHz 30dB Min@890MHz~1000MHz	80dB Min@875~888.5MHz	
8)ANT/Tx,Rx Port/Montring	SMA(F) (DC Ground Potential)		
9) In/Out Impedance	50 Ohm nominal		
10) Size	8.55x3.6x2.59 (inch)		
11 Power Output (@ COM Port) (1)	20 Watts at the 887.82MHz point		
12) Temperature range °C	0 to +80		°C

Remark :

- (1) CDMA Signal (Peak to Average 12dB requires to use 32 channel CDMA signal)
The duplexer will not collapse when 14dB Return loss load is connected to its COM Port
- (2) Monitoring is coupled from both Rx & Tx Signals(From COM Port).
Monitoring coupling is measured by First storing the Tx insertion loss into Memory. Then Tx-to-Monitor Port insertion loss is measured as Data/Memory. This gives the Monitoring Port coupling relative to the Tx/Rx insertion loss.
Monitoring Coupling is measured at the center band.

Temporary waiver on Test Method

As a temporary waiver, the power handling test conditions are : 42dBm output power;
One CDMA carrier at 887.82MHz with 9 channels (about 9.5dB peak to average ratio); temperature of 80°C; 14dB Return loss load.

1-3. Mechanical Specifications

