



## Diplexer(Dual band combiner)Specification

Diplexer(Dual band combiner)Specification	
General	
Type: Indoor/Outdoor	
Frequency band:900-1800&2100 MHz	

Item	AIS Specification	Vendor Specification	
		Comply or not comply	Specification
<b>Electrical Specification</b>			
<b>900 MHz(part1)</b>			
<b>Frequency response Band 900 MHz(MHz)</b>			
Lower frequency	890.0 or 897.5		
Upper frequency	960		
<b>Impedance</b> (Ohm)	50		
<b>Return loss</b> (dB)	>20		
<b>Insertion loss</b> (Between part1 to part3)(dB)	<0.25		
<b>Isolation</b> (Between part1 to part2)(dB)	>45		
<b>In-band Intermodulation@2-tone x 20W</b> (dBc)	≤-150		
<b>Inter-band Intermodulation@2-tone x 20W</b> (dBc)	≤-150		

<b>DC Characteristics</b> (Between part1 to part3)	Black		
<b>Average input power at part 1</b> (Watt),(Continuous)	>150		
<b>1800 &amp; 2100 MHz(part2)</b>			
<b>Frequency response Band 1800 MHz(MHz)</b>			
Lower frequency	1710		
Upper frequency	2170		
<b>Impedance</b> (Ohm)	50		
<b>Return loss</b> (dB)	>20		
<b>Insertion loss</b> (Between part2 to part3)(dB)	<0.5		
<b>Isolation</b> (Between part2 to part1)(dB)	>45		
<b>In-band Intermodulation@2-tone x 20W</b> (dBc)	≤-150		
<b>Inter-band Intermodulation@2-tone x 20W</b> (dBc)	≤-150		
<b>DC Characteristics</b> (Between part1 to part3)	Pass		
<b>Average input power at part 2</b> (Watt),(Continuous)	>150		

Physical Specification			
Connector type	7/16DIN(female)		

Environmental Specification			
The diplexer shall have no damage or degradation and its electrical specifications shall be maintained under these conditions			
Enclosure protection	Better than or equal to IP65		
Operating temperature(°C)	-10~60		
Relative humidity(%)	0~95		



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