

CAVITY MULTIPLEXER

PART NO. : WV-6MUL-COM07

◆ APPLICATION

> 6 Multi Band System

◆ FEATURE

> High Reliability
> RoHS Compliant

◆ ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION							
Frequency Range	GSM-R 900				DCS1800			
Direction	P1-UL		P2-DL		P3-UL		P4-DL	
Center Frequency(MHz)	895.5		940.5		1747.5		1842.5	
Frequency Range(MHz)	876~915		921~960		1710~1785		1805~1880	
Passband Insertion Loss	1.8dB Max		1.8dB Max		1.8dB Max		1.8dB Max	
Passband Ripple(P-P)	1.2dB Max		1.2dB Max		1.4dB Max		1.4dB Max	
Passband Return Loss	18dB Min		18dB Min		18dB Min		18dB Min	
Group Delay(nS)	150							
Max Group Delay Variation	25ns for any 4MHz band							
PIMD(Max)	-125dBm@2x36dBm							
Isolation	Freq. (MHz)	Iso. [dB] (min)	Freq. (MHz)	Iso. [dB] (min)	Freq. (MHz)	Iso. [dB] (min)	Freq. (MHz)	Iso. [dB] (min)
	DC~750	80	DC-876	80	DC-960	90	DC-1785	90
	750-862	45	876-915	70	960-1690	40	1795	35
	918	20	918	20	1705	8	1800	8
	921-960	70	980	50	1790	8	1885	8
	960-2640	40	1050-2880	90	1795	35	1920-2170	90
	2640-4400	40	2880-4800	40	1805	90	2170-5640	40
	-	-	-	-	3000-5355	40	-	-

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ITEM	SPECIFICATION			
Frequency Range	UMTS			
Direction	P5-UL		P6-DL	
Center Frequency(MHz)	1950		2140	
Frequency Range(MHz)	1920~1980		2110~2170	
Passband Insertion Loss	1.0dB Max		0.8dB Max	
Passband Ripple(P-P)	0.4dB Max		0.4dB Max	
Passband Return Loss	18dB Min		18dB Min	
Group Delay(nS)	150			
Max Group Delay Variation	25ns for any 4MHz band			
PIMD(Max)	-115dBm@2x36dBm			
Isolation	Freq. (MHz)	Iso. [dB] (min)	Freq. (MHz)	Iso. [dB] (min)
	DC~1880	90	DC-1980	90
	2045	40	2045	40
	2110-2170	90	2300-2700	90
	2700-5940	40	2700-6510	40
	-	-	-	-
	-	-	-	-
	-	-	-	-

◆ GENERAL ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
IN/OUT Impedance	50[ohms]
Power Handling	40dBm CW
Peak Power	46dBm Min
Coupling	20dB±3.0dB
Cross over Isolation	55dB Min @ all Bands without termination on all ports

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◆ ENVIRONMENTAL SPECIFICATION

ITEM	SPECIFICATION
Operating Temperature Range	-20°C to +70°C
absolute	25 g/m3 Max
Air pressure	70-106 kpa
Shock & Vibrations	5-20 Hz, 0.000298g2/Hz 20-150Hz, -6dB/oct 15min, 0.1gRMS (Random)

◆ MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION
Dimension	200.0 x 180.0 x 100.0(Max) (unit:mm)
Mounting Points	See Outline Drawing
RF Connector	ANT Port : N Female Connector Other Port : SMA Female Connector
Connector Position	See Outline Drawing
Finish	Black color epoxy coating

◆ OUTLINE DRAWING

