

CAVITY MULTIPLEXER

PART NO. : WV-9MUL-COM03

◆ APPLICATION

> 9 Multi Band System

◆ FEATURE

> High Reliability
> RoHS Compliant

◆ ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION									
Frequency Range	P1		P2		P3		P4		P5	
	707MHz		742.5MHz		781.5MHz		827.5MHz		872.5MHz	
Frequency Range(MHz)	698~716		728~757		776~787		806~849		851~894	
Passband Insertion Loss	1.5dB Max		1.5dB Max		1.5dB Max		1.5dB Max		1.5dB Max	
Passband Ripple(P-P)	0.7dB Max		0.8dB Max		0.5dB Max		1.3dB Max		1.1dB Max	
Passband Return Loss	15dB Min		15dB Min		15dB Min		15dB Min		15dB Min	
Attenuation to other ports	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)
	-	-	698-716	100	698-716	100	698-716	100	698-716	100
	728-757	100	-	-	728-757	100	728-757	100	728-757	100
	776-787	100	776-787	100	-	-	776-787	100	776-787	100
	806-849	100	806-849	100	806-849	100	-	-	806-824	100
	851-894	100	851-894	100	851-894	100	850-859	5	824-837.5	50
	-	-	-	-	-	-	859-869	50	837.5-850	4
	-	-	-	-	-	-	869-894	100	-	-
	1850-1915	100	1850-1915	100	1850-1915	100	1850-1915	100	1850-1915	100
	1930-1995	100	1930-1995	100	1930-1995	100	1930-1995	100	1930-1995	100
	1710-1755	100	1710-1755	100	1710-1755	100	1710-1755	100	1710-1755	100
	2110-2155	100	2110-2155	100	2110-2155	100	2110-2155	100	2110-2155	100

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ITEM	SPECIFICATION							
Frequency Range	P6		P7		P8		P9	
	1882.5MHz		1962.5MHz		1732.5MHz		2132.5MHz	
Frequency Range(MHz)	1850~1915		1930~1995		1710~1755		2110~2155	
Passband Insertion Loss	1.5dB Max		1.5dB Max		1.5dB Max		1.5dB Max	
Passband Ripple(P-P)	1.0dB Max		1.0dB Max		0.5dB Max		0.5dB Max	
Passband Return Loss	15dB Min		15dB Min		15dB Min		15dB Min	
Attenuation	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)	Freq. (MHz)	Atten [dB] (min)
	698-716	100	698-716	100	698-716	100	698-716	100
	728-757	100	728-757	100	728-757	100	728-757	100
	776-787	100	776-787	100	776-787	100	776-787	100
	806-849	100	806-849	100	806-849	100	806-849	100
	851-894	100	851-894	100	851-894	-100	851-894	-100
	-	-	1850-1915	100	1850-1915	100	1850-1915	100
	1930-1995	100	-	-	1930-1995	100	1930-1995	100
	1710-1755	100	1710-1755	100	-	-	1710-1755	100
	2110-2155	100	2110-2155	100	2110-2155	100	-	-

◆ PORT ISOLATION

Ports	Frequency Range[MHz]	Isolation[dB](Min)
P1 to P2	716 - 728	80
P2 to P3	716 - 728	80
P2 to P3	757 - 776	80
P3 to P2	757 - 776	80
P4 to P5	849 - 851	10
P5 to P4	849 - 851	10
P6 to P7	1915 - 1930	80
P7 to P6	1915 - 1930	80
P8 to P9	1755 - 2110	80
P9 to P8	1755 - 2110	80

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◆ GENERAL ELECTRICAL SPECIFICATION

ITEM	SPECIFICATION
IN/OUT Impedance	50[ohms]
Power	100W CW

◆ ENVIRONMENTAL SPECIFICATION

ITEM	SPECIFICATION
Operating Temperature Range	-20°C to +70°C

◆ MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION
Dimension	360.0 x 359.0 x 94.0 (unit:mm)
Mounting Points	See Outline Drawing
RF Connector	ANT Port : N Female Long Connector Other Port : SMA Female Connector
Connector Position	See Outline Drawing
Finish	Black color epoxy coating

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◆ OUTLINE DRAWING

