

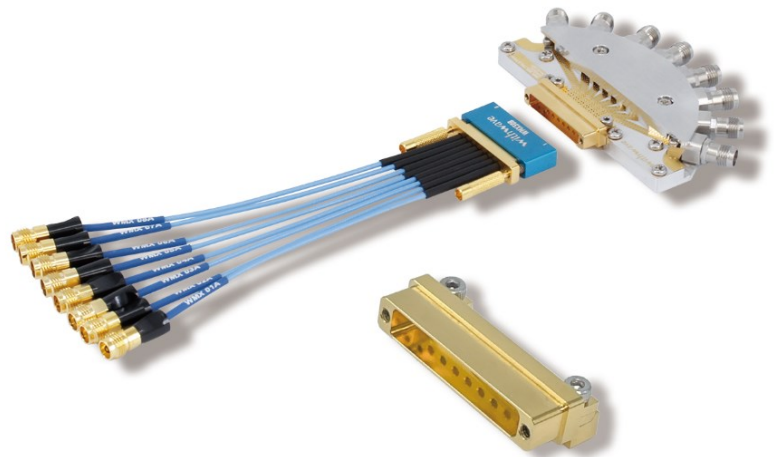
WMX Series (High speed & High-density Multi-coax Cable assembly)



Withwave's High Speed & High-density Multicoax Cable Assemblies (WMX Series) provides a wide range of multiple coax connectors and flexible cable assemblies with a choice of 20,40,50 & 67 GHz configurations based on precision array design and superior high frequency cabling solutions. The WMX series is an excellent signal integrity solution for bench-top and automated test equipment to meet increasing demands of the semiconductor and optical test industries.



< Vertical type >



< Board Edge type >

Features

Vertical type

- Frequency Range : DC to 20, 40, 50 & 67 GHz
- Excellent Insertion and Return loss performance
- Socket & Direct Contact type (Solderless pins)
- No. of Channel : 1x8, 2x8 Channel
- Pitch : 2.54 mm & 4.00 mm

Board Edge type

- Frequency Range : DC to 20, 40 & 50 GHz
- Excellent Insertion and Return loss performance
- Board edge socket contact type (solderless)
- No. of Channel : 1x8 Channel
- Pitch : 2.54 mm

Application

- Semiconductor & Optical test equipment
- High speed testing module
- Super Computing
- 5G Communication systems

Scan the QR code
WMX Series (Vertical type)



Scan the QR code
WMX Series (Board Edge type)

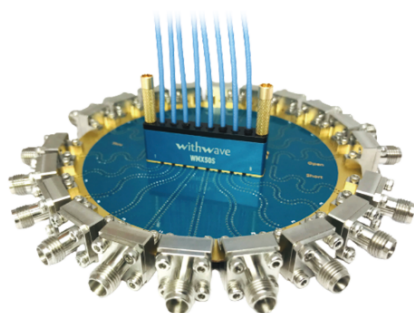
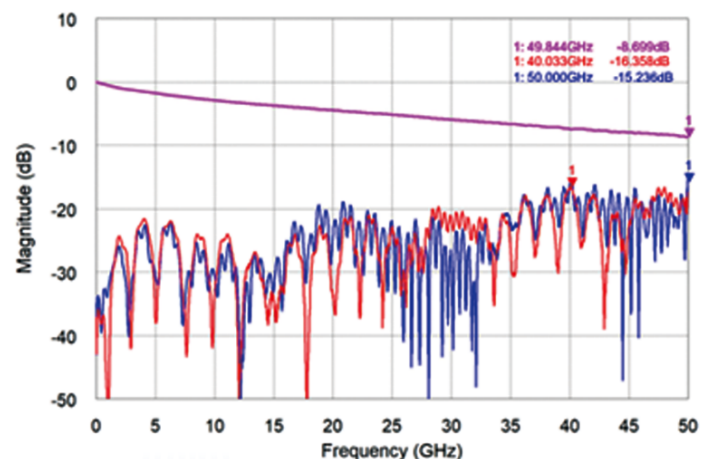


Specification

Scope	Specification	WMX20	WMX40	WMX50	WMX67 (only Vertical)
Electrical	Freq. Range (Max)	20 GHz	40 GHz	50 GHz	67 GHz
	Impedance	50 Ω			
	VSWR	1.3 (Vertical) 1.4 (Board-Edge)	1.4 1.5	1.4 1.6	1.5
Mechanical & Environmental	PCB Contact type	Socket type Direct Contact type (Only Vertical)			
	No. of Channel	8 Channel (1x8) 16 Channel (2x8, Only Vertical)			
	Connector type	SMA	2.92 mm	2.4 mm	1.85 mm
	Pitch	2.54 mm 4.00 mm (Only Vertical)			
	Cable Out Diameter	0.047 inch			
	Min. Cable length	80 mm (without bending jig) 150 mm (including bending jig)			
	Temperature	-55 ~ +125 $^{\circ}\text{C}$			

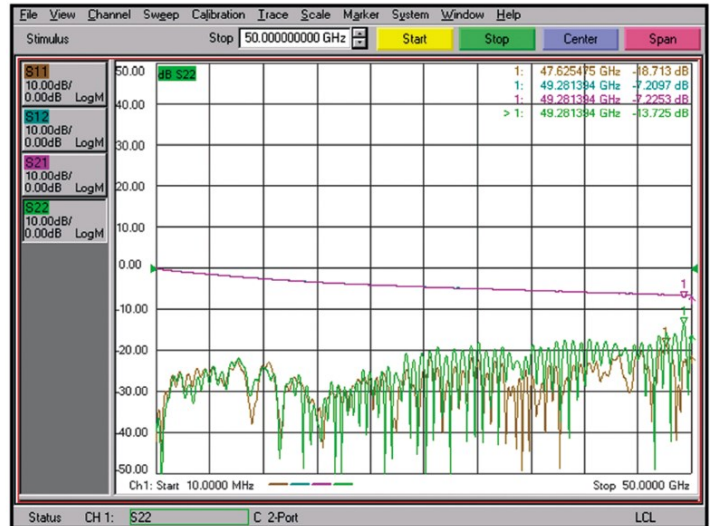
Test condition & results (Vertical type)

WMX50 (1x8 Channel)
- Cable length : 150 mm (O.D : 0.047 inch)
- Connector : 2.4 mm (Female)
Test Board
- PCB : Multilayer (RO4003C 8 mil + FR4 16 mil)
- RF Trace length : 44.14 mm
- Connector : End Launch 2.4 mm (Female)



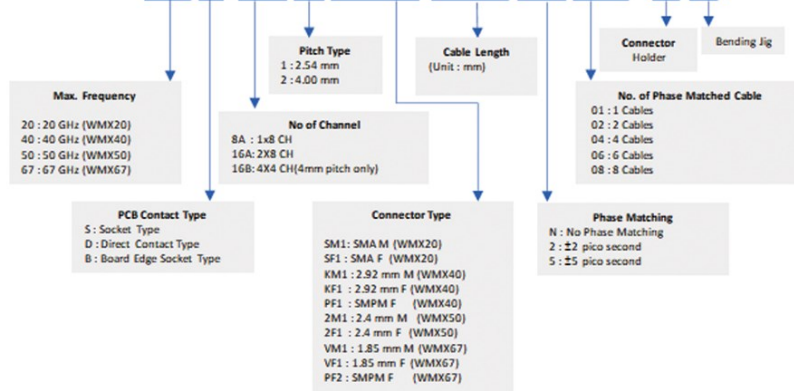
Test condition & results (Board-Edge type)

WMX50B
- Cable Length : 150 mm (O.D : 0.047 inch)
- Connector : 2.4mm (Female)
Test Board
- PCB : RO4003C 8mil
- RF Trace length : 31.9 mm
- Connector : End Launch 2.4 mm (Narrow Block, female)



Selection Guide

WMX40S-8A1-KM1-300-2-02-(HB)



Selection Guide (Socket)

WMX-8A-01



< Vertical type >

Pitch Type
01 : 2.54 mm
02 : 4.00 mm

No of Channel
8A : 1x8 Channel
16A : 2X8 Channel

WMX-8A-01-B



< Board Edge type >

Socket Type
B : Board Edge

Pitch Type
01 : 2.54 mm

No of Channel
8A : 1x8 Channel