

CONNECTOR

MB-0403-1E

Jun.2025

Millimeter Wave Band Coaxial Connector

0.8mm Series

RoHS Compliant



Overview

The 0.8 mm mm-Wave coaxial connector covers frequencies up to 145 GHz. We offer a lineup of semi-rigid cable assemblies, conversion adapters, and receptacles.

Application

Measurement and testing, various millimeter wave components and devices, etc.

Features

- Optimized design for superb impedance matching with corresponding high-precision manufacturing for excellent high frequency characteristics
- Non-soldered connection of the central conductor realizes low-reflection cable assemblies
- Full range of conversion adapters with standardized electrical length

General Specifications

Characteristic (nominal) Impedance	50Ω
Frequency Range	DC to 145GHz
Applicable Cable	Semi-rigid cable (SX-09) 0.034"

* This product is made by Waka Manufacturing Co.,Ltd..

Materials and Finishes

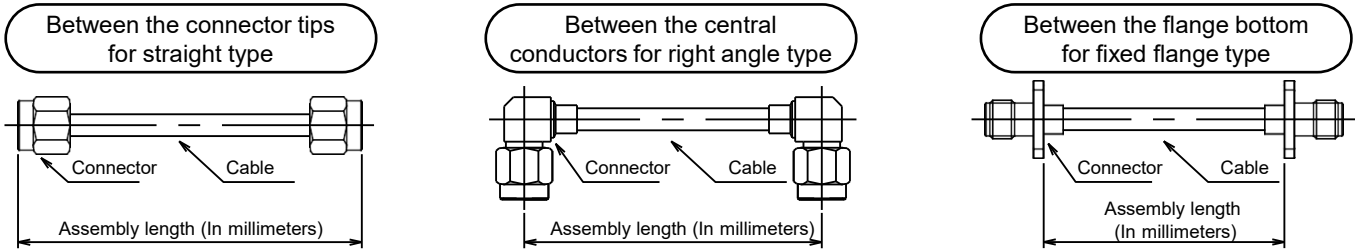
Components	Materials / Finishes
Shell	SUS / Passivate
Central Contact	Beryllium Copper / Au

Product Name and Product Overview

Categories	Product Name	Product Overview	VSWR	Insertion Loss
Connector	01R0495-00	0.8mm Bulkhead Jack	1.3 max.@DC-65GHz 1.5 max.@65GHz-110GHz 1.6 max.@110GHz-145GHz	1.0dB max.@DC-145GHz
Coaxial Cable Assembly	02YE190#xxxx	0.8mm/P 0.8mm/P SX-09 Assy	1.3 max.@DC-65GHz 1.4 max.@65GHz-110GHz 1.5 max.@110GHz-145GHz	3.8dB max.@DC-145GHz ※L=100mm
	02YE191#xxxx	0.8mm/J 0.8mm/J SX-09 Assy		
	02YE192#xxxx	0.8mm/P 0.8mm/J SX-09 Assy		
	02YE209#xxxx	0.8mm/P 1.0mmW/P SX-09 Assy	1.2 max.@DC-40GHz 1.4 max.@40GHz-60GHz 1.6 max.@60GHz-110GHz	3.3dB max.@DC-110GHz ※L=100mm
	02YE210#xxxx	0.8mm/P 1.0mmW/J SX-09 Assy		
	02YE211#xxxx	0.8mm/J 1.0mmW/P SX-09 Assy		
	02YE212#xxxx	0.8mm/J 1.0mmW/J SX-09 Assy		
	AM1KDFDF#xxxx	0.8mm/J 0.8mm/J Armored Assy	1.3 max. @DC-40GHz 1.4 max. @40GHz-60GHz 1.5 max. @60GHz-110GHz 1.6 max. @110GHz-145GHz	3.8dB max. @DC-145GHz ※L=100mm
	AM1KDMDF#xxxx	0.8mm/P 0.8mm/J Armored Assy		
	AM1KDMDM#xxxx	0.8mm/P 0.8mm/P Armored Assy		
Adapter	02R0517-00	0.8mm/P-0.8mm/P	1.35 max.@DC-110GHz 1.4 max.@110GHz-145GHz	0.5dB max.@DC-145GHz
	02R0518-00	0.8mm/P-0.8mm/J		0.4dB max.@DC-145GHz
	02R0519-00	0.8mm/J-0.8mm/J		0.25dB max.@DC-145GHz
	02R0507-00	0.8mm/P-1.0mmW/P	1.4 max.@DC-110GHz 1.5 max.@110GHz-130GHz	0.5dB max.@DC-110GHz 1.2dB max.@110-130GHz
	02R0508-00	0.8mm/P-1.0mmW/J		
	02R0509-00	0.8mm/J-1.0mmW/P		
	02R0510-00	0.8mm/J-1.0mmW/J		

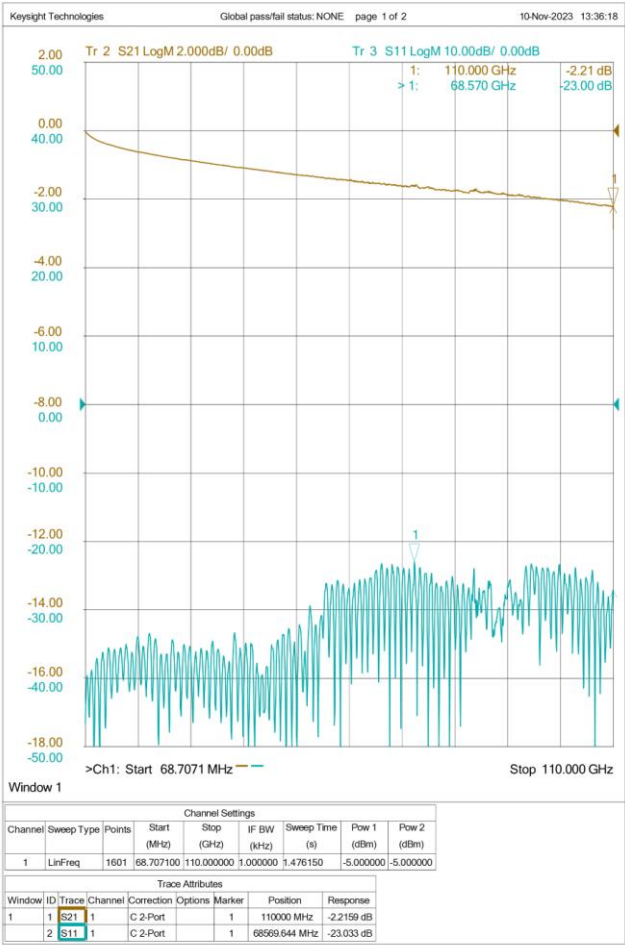
*#xxxx represents cable length in millimeters. Ex.: #0100=100mm

Cable Assembly Length Definitions

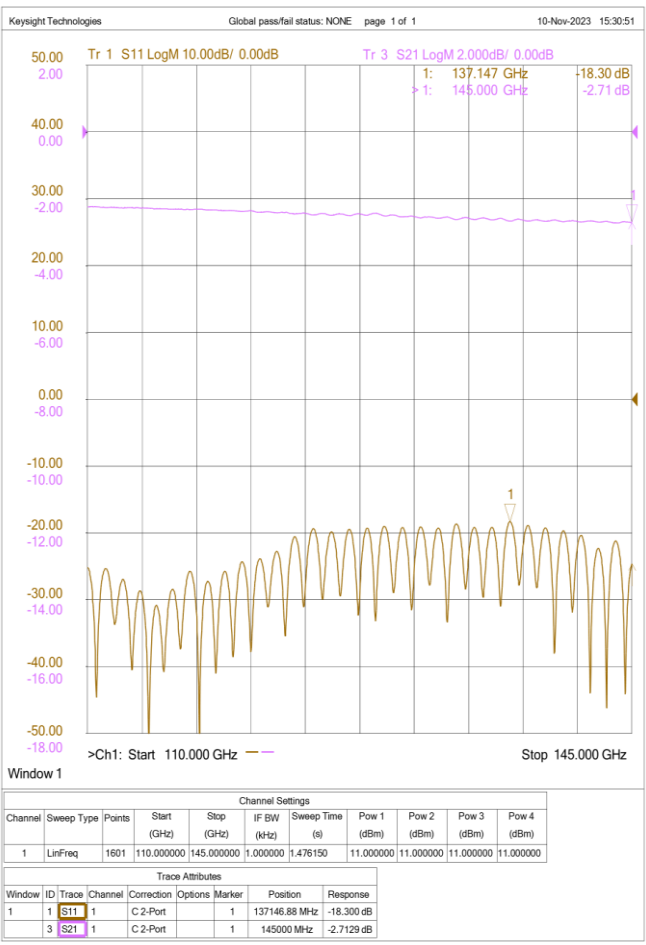


Measured SI Data

02YE192#0100 (0.8mm/P 0.8mm/J SX-09 L=100mm)



DC to 110GHz



110 to 145GHz

Drawings and Specifications

Categories	Product Name	Product drawing number	Product Specifications Table
Connector	01R0495-00	SJ131206	JACS-20249
Coaxial Cable Assembly	02YE190#xxxx	SJ131224	JACS-20257
	02YE191#xxxx	SJ131225	
	02YE192#xxxx	SJ131226	
	02YE209#xxxx	SJ131227	JACS-20258
	02YE210#xxxx	SJ131228	
	02YE211#xxxx	SJ131229	
	02YE212#xxxx	SJ131230	
	AM1KDFDF#xxxx	SJ131231	JACS-20259
	AM1KDMDF#xxxx	SJ131232	
	AM1KDMDM#xxxx	SJ131233	
Adapter	02R0517-00	SJ131214	JACS-20250
	02R0518-00	SJ131215	
	02R0519-00	SJ131216	
	02R0507-00	SJ131210	JACS-20251
	02R0508-00	SJ131212	
	02R0509-00	SJ131213	
	02R0510-00	SJ131219	

Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this brochure are designed for the uses recommended below.
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.
- (1) Applications that require consultation:
(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
(ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.
- (2) Recommended applications include:
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

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