

Millimeter Wave Band Coaxial Connector

CONNECTOR

SMPS Series

MB-0405-1E

Jun.2025

RoHS Compliant



Overview

The millimeter wave SMPS connector is an ultra-compact connector that supports high frequencies. Ideal for high-density mounting locations. Flexible cables and conversion adapters are available.

Application

Optical components, millimeter wave modules, test and measurement, etc.

Features

- Supports up to 65GHz. Achieves excellent VSWR and low loss.
- Ultra-compact push-on structure makes it ideal for use in space-constrained applications.
- Compatible with G3PO (Corning).

General Specifications

Characteristic (nominal) Impedance	50Ω
Frequency Range	DC to 65GHz
Applicable Cable	Flexible cable (SWF-12)

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

Materials and Finishes

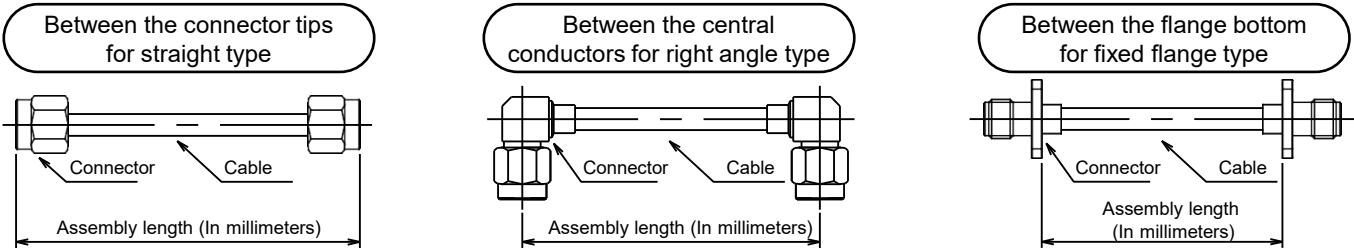
Categories	Product Name	Components	Materials / Finishes
Coaxial Cable Assembly	02W2794#xxxx	Shell	Beryllium Copper / Au
		Central Contact	Beryllium Copper / Au
	02W2814#xxxx	Shell	1.85mmV Side : SUS / Passivate
		Central Contact	SMPS Side : Beryllium Copper / Au
Adapter	02R0411-00	Shell	1.85mmV Side : SUS / Passivate
		Central Contact	SMPS Side : SUS / Passivate
	02R0412-00	Shell	Beryllium Copper / Au
		Central Contact	1.85mmV Side : SUS / Passivate
	02R0413-00	Shell	SMPS Side : SUS / Passivate
		Central Contact	Beryllium Copper / Au
	02R0414-00	Shell	1.85mmV Side : SUS / Passivate
		Central Contact	SMPS Side : Beryllium Copper / Au
		Shell	SMPS Side : Beryllium Copper / Au
		Central Contact	Beryllium Copper / Au
		Shell	1.85mmV Side : SUS / Passivate
		Central Contact	SMPS Side : Beryllium Copper / Au

Product Name and Product Overview

Categories	Product Name	Product Overview	VSWR	Insertion Loss
Coaxial Cable Assembly	02W2794#xxxx	SMPS/J-J flexible cable	1.2以下@DC-20GHz 1.4以下@20GHz-40GHz 1.6以下@40GHz-65GHz	2.7dB以下@DC-65GHz ※L=100mm時
	02W2814#xxxx	SMPS/J-1.85mmV/J flexible cable		
Adapter	02R0411-00	1.85mmV/P-SMPS/P Adpt 65GHz	1.5以下@DC-65GHz	1.2dB以下@DC-65GHz
	02R0412-00	1.85mmV/J-SMPS/P Adpt 65GHz		
	02R0413-00	1.85mmV/P-SMPS/J Adpt 65GHz		
	02R0414-00	1.85mmV/J-SMPS/J Adpt 65GHz		

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

Cable Assembly Length Definitions



Measured SI Data

02W2794#0100 (SMPS/J SMPS/J SWF-12 L=100mm)

MS4647B

MODEL: 02W2794#0100

DATE: 12/02/2024 10:51

DEVICE ID:

OPERATOR:

START: 0.040000000 GHz

ERROR CORR: 12-TERM

STOP: 65.000000000 GHz

AVERAGING: 1 PT

STEP: 0.040000000 GHz

IF BNDWDTH: 1 KHz

PARAMETER: ---TR1---

---TR2---

NORMALIZATION: -S21-

-S11-

SMOOTHING: OFF

OFF

DELAY APERTURE: 0.0 PERCENT

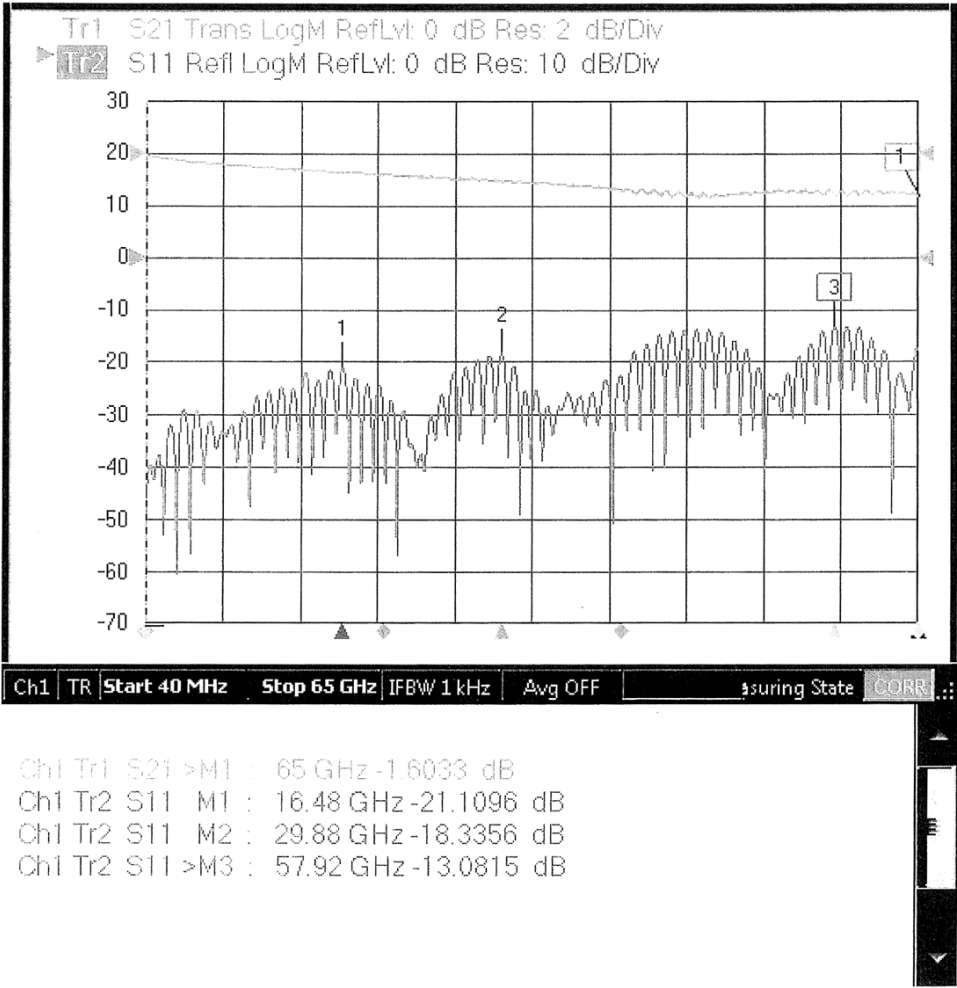
0.0 PERCENT

REFERENCE PLANE: --PORT1--

--PORT2--

0.0000mm

0.0000mm



Drawings and Specifications

Categories	Product Name	Product drawing number	Product Specifications Table
Coaxial Cable Assembly	02W2794#xxxx	SJ131368	JACS-20261
	02W2814#xxxx	SJ131369	JACS-20262
Adapter	02R0411-00	SJ131364	JACS-20260
	02R0412-00	SJ131365	
	02R0413-00	SJ131366	
	02R0414-00	SJ131367	

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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