

SPECIFICATION		Specification No.	S-240700C11~13				
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Product Name	Coaxial SPD N-JP-3482ST(CE)	Enactment Date	23.Dec.2024	Revision Date			
		Drawing Section	Product Development Department.				

1. General

This product is a $\lambda/4$ short stub type coaxial SPD that protects various wireless devices from lightning damage when a wireless station is struck by lightning. It is small, lightweight, and has an N-type plug-jack structure, so it can be inserted into coaxial cable connection points, etc.

This product has a $\lambda/4$ short stub structure. This protects equipment by allowing only signals within the frequency band to pass through and discharging components outside the frequency band, including lightning and direct current to ground.

Therefore, please note that this product cannot be used on lines with DC superimposed.

2. Environment

2.1 Location : indoor / outdoor※

2.2 Rated and storage temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

2.3 Rated and storage humidity : $\leq 90\%$ (no condensation)

※When using it outdoors, please use self-adhesive tape etc. for the connector connecting part.

3. Structure

3.1 Appearance, Structure and Dimension

Appearance, Structure and Dimensions are figured by S-240700A11

3.2 Marking

The following display is marked on the product.

(1) Product name (2) Production date or lot number

(3) Manufacturer's name or its abbreviation

(4) Maximum continuous operating voltage (Uc)

4. Structure

Applicable Standards of this product is Table 1.

Table 1 Applicable Standards

Item	Standards name
Surge protection performance	IEC 61643-21:2009 / JIS C 5381-21:2014

5. Electrical Characteristics

The Electrical Characteristics of this product are Table 2.

Table 2 Electrical Characteristics

No	Item	Condition	Performance
1	Frequency Range	—	3.4 ~ 8.2GHz
2	Characteristic Impedance	—	50Ω
3	Insertion loss	—	$\leq 0.2\text{dB}$
4	V.S.W.R	—	≤ 1.35
5	Maximum Rating	—	100W
6	Maximum continuous operating voltage (Uc)	—	DC0V
7	Voltage Protection Level (Up)	1.2/50μs 10kV	$\leq 20\text{V}$
		10/200μs 10kV	$\leq 20\text{V}$
8	Impulse Durability	8/20μs Category C2	30kA 10times
		10/350μs Category D1	2.5kA 2times
9	Connector Type	—	N(Plug - Jack)

Note1) Test conditions

Temperature $20 \pm 15^{\circ}\text{C}$, Humidity $65 \pm 20\%$ (IEC-60160(normal condition of test place))

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6. Inspection

The inspection of electrical characteristics, mechanical characteristics and exterior shall be held as following Table 3.

Table 3 Check condition

Item	Inspection Type	Judgment Standard
Insertion loss	Total Inspection	It depends on Table 2.
V.S.W.R	Total Inspection	
Maximum continuous operating voltage (Uc)	Model Inspection	
Voltage Protection Level (Up)	Model Inspection	
Impulse Durability	Model Inspection	
Appearance	Total Inspection	It depends on clause 3.
Dimension	Sampling Inspection	

Note1) The sampling Inspection of dimensions, I assume it $n = 5$, $A_c = 0$, $R_e = 1$

Note2) Type Inspection: This inspections are conducted on at least one unit for the first lot of products in the production process at the time of new manufacturing or when important materials or manufacturing methods are changed. However, items whose performance can be confirmed with the same type of product may be omitted.

7. Packaging

Place one product in a plastic bag and then bubble wrap.

8. Quality Assurance Period and Content of Assurance

The warranty period for this product is generally one year (*) from the date of delivery. Failures that occur during this time will be repaired free of charge or replaced only with non-defective ones if the cause is clearly judged to be our responsibility. The warranty does not cover any damage or damage to the device caused by lightning. The cost of replacement is not covered by the warranty.

This product is shipped after strict in-house inspection. However, please contact the dealer or each branch office of purchase for any trouble caused by a malfunction or accident during transportation.

Purchased items are not covered by our warranty but are covered by the manufacturer's warranty.

*If you wish to extend the warranty, we will discuss the warranty separately

However, the warranty does not apply in the following cases:

- (1) If the product arises from use that is contrary to the conditions or precautions stated in the specifications or instruction manual, etc.
- (2) Lightning, fire, earthquake, typhoon, eruption, flood, tsunami, salt damage, snow damage, freezing, abnormal temperature, abnormal vibration, cases caused by other natural disasters
- (3) When caused by changes in geology or topography, such as ground fluctuations or landslides
- (4) Cases resulting from external factors such as fire, explosion, collision, corrosive gas, or contact with flying objects
- (5) Cases arising from acts of a third party
- (6) If the product is modified irrespective of our company, or improper handling such as moving, transporting or dropping the installation site, cases arising from secondary construction
- (7) Cases caused by damage or improper construction of foundation or mounting pole (outside our construction scope)
- (8) The failure or failure of the equipment connected to this product
- (9) If it occurs without performing inspection and action for maintenance items recommended by us

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9. Environmental correspondence (RoHS compliant)

This product does not contain more than specified provisions for substances subject to regulation in the EU RoHS Directive (*), except for exemption items for lead, mercury, cadmium, hexavalent chromium, PBB, PBDE, DEHP, BBP, DBP, DIBP.

*European Parliament / Council Directive 2011/65/EU, (EU) 2015/863

10. Note

Coaxial SPD connector fitting method

When connecting this product, rotate only the connection nut while holding the product body in place.

Do not rotate the product to prevent damage to the connector.

The tightening torque of the connection nut should be 3.0N・m or less.

