

<b>SPECIFICATION</b>		Specification No.	T-971040C11~12			
		Drawing No.	T-971040C11	Revision	a	Page
Product Name	Coaxial SPD Model: TNC-JP-3	Enactment Date	Aug. 31, 2010	Revision Date	April 4, 2023	
		Drawing Section	Product Development Department			

### 1. General

This product is SPD to protect the equipment such as radio, visual communication and others which is connected with coaxial cable from abnormal voltage such as lightning surge. It is equipped with M4 size ground terminal, and lightning surge current can be discharged to ground surely.

### 2. Environment

- 2.1 Location : indoor (When using it outdoors, please use self-adhesive tape etc. for the connector connecting part.)
- 2.2 Rated and storage temperature :  $-35^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 2.3 Rated and storage humidity :  $\leq 90\%$  ( no condensation )

### 3. Structure

#### 3.1 Appearance, Structure and Dimension

Appearance, Structure and Dimensions are figured by T-971040A11

#### 3.2 Marking

The following display is marked on the product.

- (1) Product name      (2) Manufacturer name      (3) Production lot number

### 4. Electrical Characteristics

The Electrical Characteristics of this product is Table.1

Table.1 Electrical Characteristics

Item	Specification	Remarks
Frequency Range	DC ~ 3 GHz	
V.S.W.R	$\leq 1.2$	DC ~ 3 GHz
Insertion loss	$\leq 0.3$ dB	DC ~ 3 GHz
Characteristic Impedance	50 $\Omega$	
Maximum Rating	10 W	
DC Spark-over Voltage	$\geq$ DC 120 V	100 V/s
Voltage Protection Level (Up)	$\leq 700$ V	1 kV/ $\mu$ s
	$\leq 900$ V	1.2/50 $\mu$ s 10 kV
Impulse Durability	8/20 $\mu$ s 5 kA 10 times	Category C2
	10/350 $\mu$ s 2.5 kA 2 times	Category D1
Maximum Discharge Current	8/20 $\mu$ s 10 kA 1 time	
Insulation Resistance	$\geq 100$ M $\Omega$	DC 100 V
Connector Type	TNC (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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#### 5. Inspection

The inspection of electrical characteristics, mechanical characteristics and exterior shall be held as following Table.2.

Table.2 Check condition

Item	Inspection Type	Judgment Standard
V.S.W.R	Total Inspection	It depends on clause 4.
Insertion loss	Total Inspection	
DC Spark-over Voltage	Total Inspection	
Voltage Protection Level (Up)	Model Inspection	
Impulse Durability	Model Inspection	
Maximum Discharge Current	Model Inspection	
Insulation Resistance	Total Inspection	
Appearance	Total Inspection	It depends on Structure`s figured by T-971040A11
Dimension	Sampling Inspection	

Note1) The sampling Inspection of dimensions, I assume it n=5,Ac=0,Re=1

Note2) Model Inspection; This inspection is executed more than one about the first lot that was able to expand in a production process. However, the item from which the performance is confirmed by the same type of product might be omitted.

#### 6. Packaging

Place one product in a plastic bag. And then packed in a cardboard box in every 100 pcs of products.

#### 7. Warranty Period and Conditions

The warranty period is for one year from the delivery date. Your product will be replaced with a product in good condition if a problem that occurs during this period is determined to be the responsibility of Sankosha. Replacement is limited to the actual product only. Any expenses incurred by the replacement will be charged to the customer.

#### 8. Environmental correspondence (RoHS compliant)

This product does not contain more than specified provisions for substances subject to regulation (6 substances) in the EU RoHS Directive (\*), except for exemptions.

6 substances: Lead, Mercury, Cadmium, Hexavalent Chromium, PBB, PBDE.

\* European Parliament / Council Directive 2011/65 / EU

#### 9. Notes

The tightening torque of the M4 grounding terminal of this product should be 1.0 N · m (10 kgf · cm) or less.