



MCVJKA-STW



12G-SDI Staggered Video Jacks

Newly developed high performance dual video jacks for 32MCKA-ST.

— Key Features and Benefits

- Return loss: ≥ 10 dB @ 3 GHz, 7 dB, @ 6 GHz, 4 dB @ 12 GHz
- Isolation: ≥ 45 dB @ 6 GHz
- 12G/3G/HD/SD-SDI
- Dust-proof shutter
- Staggered BNC rear jacks with vertical stud position.
Improved visibility of the position mark on the BNC plug body.

Note1: Be sure to use with Canare Micro Video Patch Cords.

Note2: Not compatible with other plug/patch cables.

Note3: 'MCVJKA-STW/STS' cannot use with patchbays '32MCK series'.
Be sure to use with '32MCKA series'.



For inquiries about this products

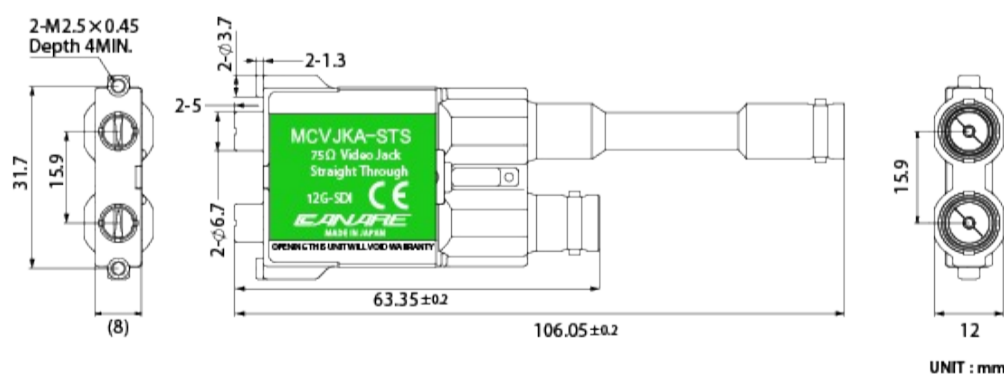
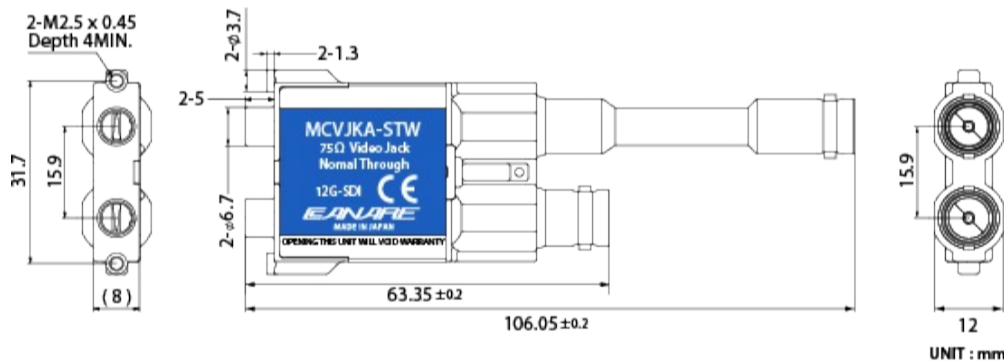


Tech Data

Downloads

// Dual Video Jacks 12G-SDI

Type	Model	Description	Rear Jacks	Standard package
	MCVJKA-STW	Normal through, Staggered rear jacks	BNC	1
	MCVJKA-STS	Straight through, Staggered rear jacks	BNC	1
NO IMAGE	MCVJ-DC	Dust cap for MCVJK(A) (black)	-	100 pcs



Return Loss & Isolation

Model		MCVJKA-STW	MCVJKA-STS
RL	BNC-BNC: Normal Through	15 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz 7 dB or greater @ 6 GHz 4 dB or greater @ 12 GHz	-
	BNC-Video: Patch Through		15 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz 7 dB or greater @ 6 GHz 4 dB or greater @ 12 GHz
	BNC-Self Termination		15 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz 7 dB or greater @ 6 GHz 4 dB or greater @ 12 GHz
Isolation		45 dB or greater @ 6 GHz	45 dB or greater @ 6 GHz

Technical Note

Dual Video Jack Normalling Chart

There are two types of dual video jacks: Normal Through and Straight Through. In Canare, these are identified at the end of the model name, W means the former and S means the latter. The following chart explains the differences between two types.





MCVJKA-STW
75Ω Video Jack
Normal Through
12G-SDI



EANARE
MADE IN JAPAN

OPENING THIS UNIT WILL VOID WARRANTY



MCVJKA-ST5

75Ω Video Jack
Straight Through

12G-SDI



LEANAFE
MADE IN JAPAN

OPENING THIS UNIT WILL VOID WARRANTY

PRODUCT SPECIFICATIONS

(MCVJK-ST5)

1/2
SAB510
Ver1.1

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE dual video jack.

2. General Specifications

- (1) **Product name** Dual video jack
- (2) **Model name** MCVJK-ST5
- (3) **Nominal impedance** 75Ω unbalanced
- (4) **Construction** As shown in the drawing (BL510)
- (5) **Weight** Approx 70g
- (6) **Designation** Model name (MCVJK-ST5) and brand name (CANARE) on label
- (7) **Connector type** Front: Canare original design
Rear: BNC (JIS C 5412)

3. Rating

- (1) **Operating temperature** -10°C ~ +70°C
- (2) **Operating humidity** ~ 85%

4. Electrical characteristics As shown in **Table 1**

Table 1

Items	Specified values	Test methods
Insulation resistance	1000MΩ or more	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric breakdown etc.	500V a.c. shall be applied for 1 min between the contacts.
Contact resistance (Initial)	Between external contacts:10mΩ or less Between center contacts :60mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a jack. (1kHz:1mA a.c.)
Return loss	15dB or more (~1.5GHz) 10dB or more (~3.0GHz) 7dB or more (~6.0GHz) 4dB or more (~12.0GHz)	Terminating with 75Ω and measured.
Isolation	45dB or more (~6.0GHz)	Measuring leaking signal at another port.
Insertion loss	1.5dB or less (~3.0GHz) 2.0dB or less (~6.0GHz)	Measuring attenuation value between BNC-video port.

5. Mechanical characteristics As shown in **Table 2**

Table 2

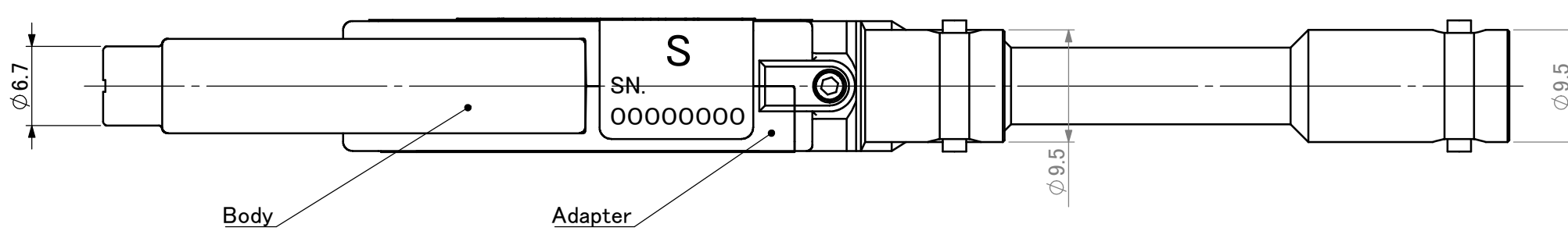
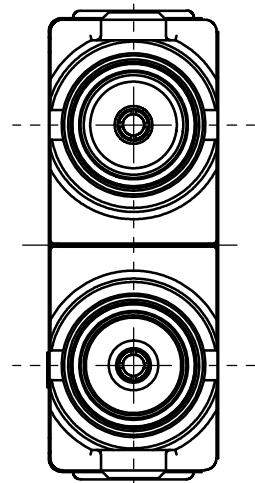
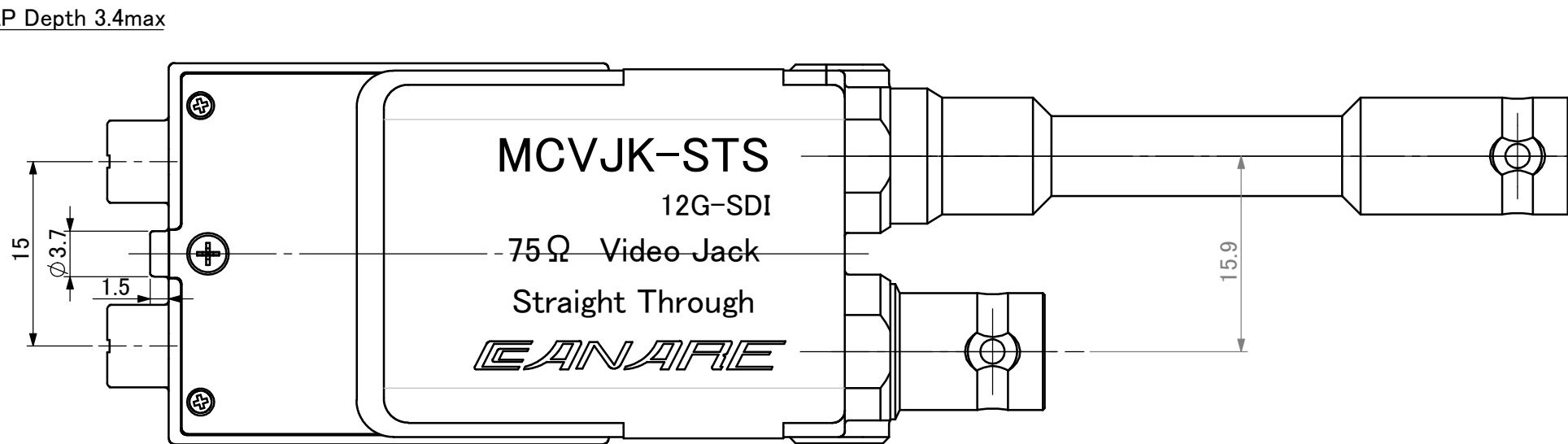
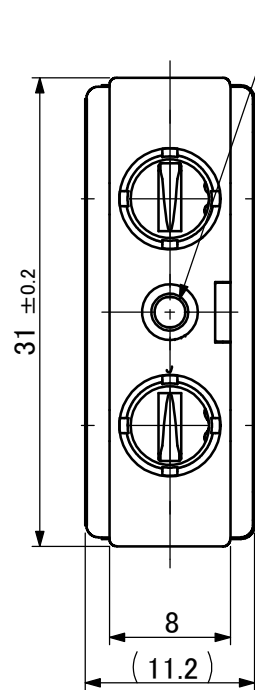
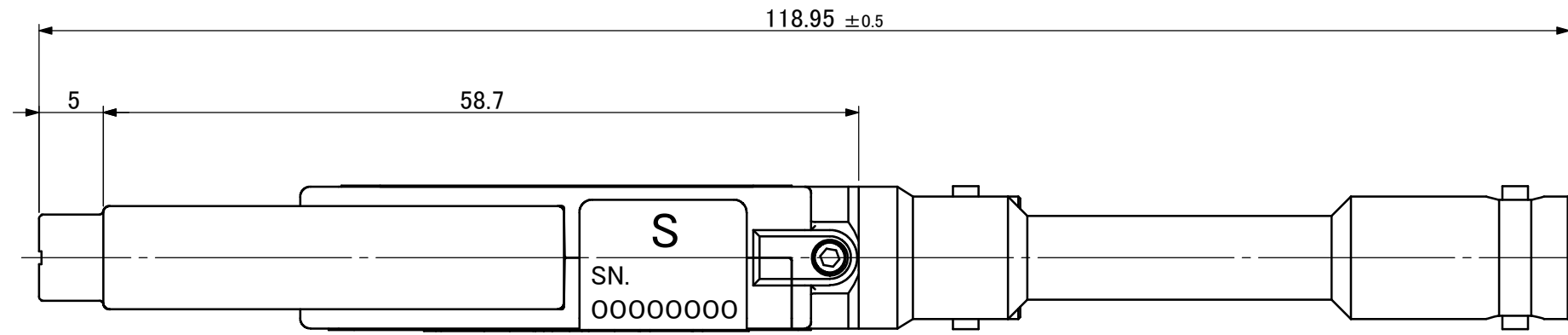
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The jack and applicable plug shall be engaged.
Fixing force of plug and jack	4N or more	Measuring pull strength of video plug after 3 times of engagement and separation.
Mechanical operation (repeated)	contact resistance: Between external contacts:20mΩ or less Between center contacts :120mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 10000 cycles.

6. Environmental characteristics As shown in Table 3

Table 3

Items	Specified values	Test methods
Change of temperature	Insulation Resistance: DC500V, 1,000MΩ or more Voltage proof: Without damage such as electric breakdown etc. Contact Resistance: Between External Contact:20mΩ or less Between Center Contact :120mΩ or less	Performs 10 cycles of changing temperature. (-40°C as low temperature for 30min→ +85°C as low temperature for 30min) Moving the sample from low to high temperature should be done in a few minutes.
	Return Loss: 15dB or more (~1.5GHz) 10dB or more (~3.0GHz) 7dB or more (~6.0GHz) 4dB or more (~12.0GHz)	

7. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15°C to 35°C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1°C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



S: Straight Through

1	Dual Video Jack	1	Zinc Alloy Die-Cast(Body) Aluminium Die-Cast(Adapter)	Nickel Plating
No.	Name of Parts	Pc(s)	Material	Finish
Title		PJTN	Unit Sc.	Tol.
Dual Video Jack			mm 2:1	±0.1
		Date	Ver. 1.1	Model
		2017-09-04		MCVJK-STS
		No.		
		BL510		

PRODUCT SPECIFICATIONS

(MCVJK-STW)

1/2
SAB509
Ver1.1

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE dual video jack.

2. General Specifications

- (1) **Product name** Dual video jack
- (2) **Model name** MCVJK-STW
- (3) **Nominal impedance** 75Ω unbalanced
- (4) **Construction** As shown in the drawing (BL509)
- (5) **Weight** Approx 70g
- (6) **Designation** Model name (MCVJK-STW) and brand name (CANARE) on label
- (7) **Connector type** Front: Canare original design
Rear: BNC (JIS C 5412)

3. Rating

- (1) **Operating temperature** -10°C ~ +70°C
- (2) **Operating humidity** ~ 85%

4. Electrical characteristics As shown in **Table 1**

Table 1

Items	Specified values	Test methods
Insulation resistance	1000MΩ or more	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric breakdown etc.	500V a.c. shall be applied for 1 min between the contacts.
Contact resistance (Initial)	Between external contacts:10mΩ or less Between center contacts :60mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a jack. (1kHz:1mA a.c.)
Return loss	15dB or more (~1.5GHz) 10dB or more (~3.0GHz) 7dB or more (~6.0GHz) 4dB or more (~12.0GHz)	Terminating with 75Ω and measured.
Isolation	45dB or more (~6.0GHz)	Measuring leaking signal at another port.
Insertion loss	1.5dB or less (~3.0GHz) 2.0dB or less (~6.0GHz)	Measuring attenuation value between BNC-BNC and BNC-video port.

5. Mechanical characteristics As shown in **Table 2**

Table 2

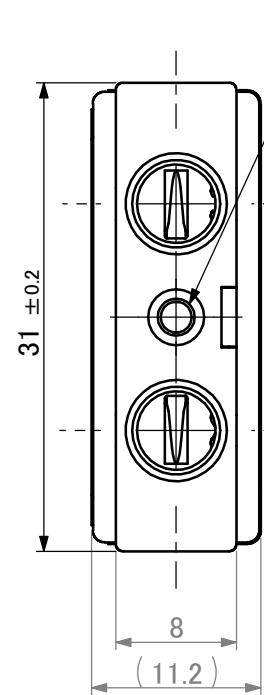
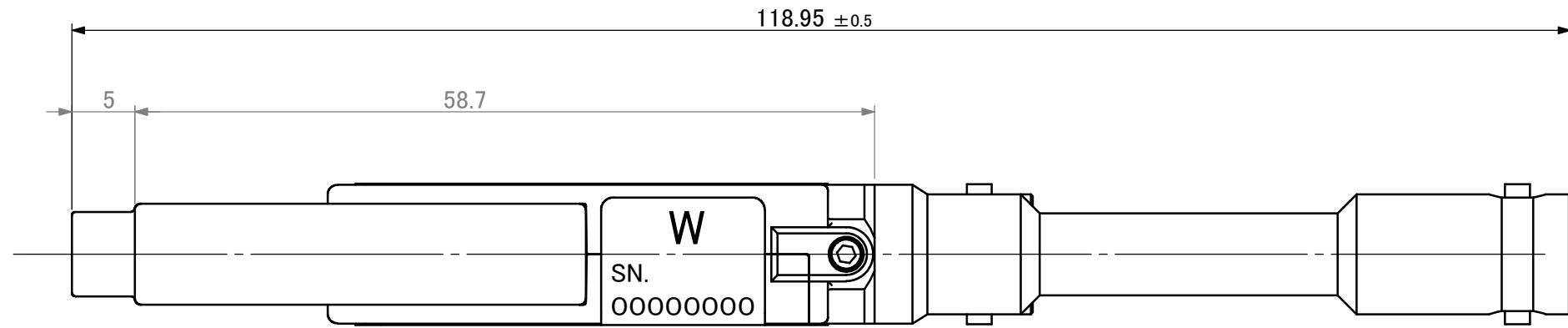
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The jack and applicable plug shall be engaged.
Fixing force of plug and jack	4N or more	Measuring pull strength of video plug after 3 times of engagement and separation.
Mechanical operation (repeated)	contact resistance: Between external contacts:20mΩ or less Between center contacts :120mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 10000 cycles.

6. Environmental characteristics As shown in Table 3

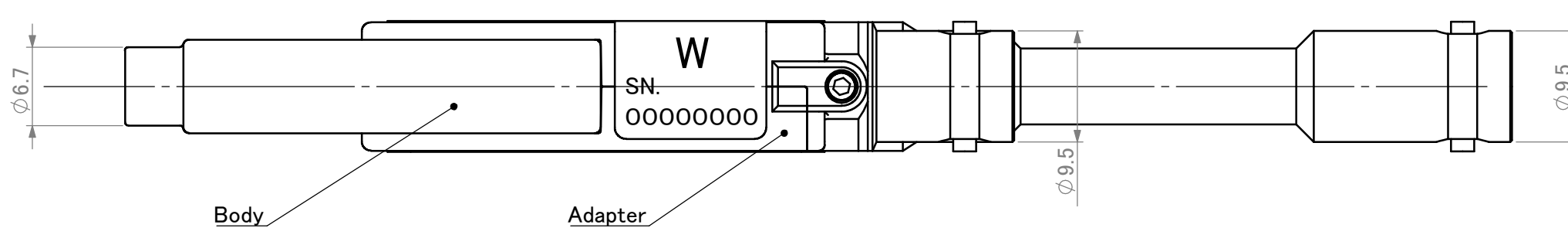
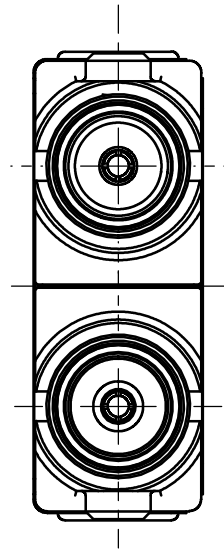
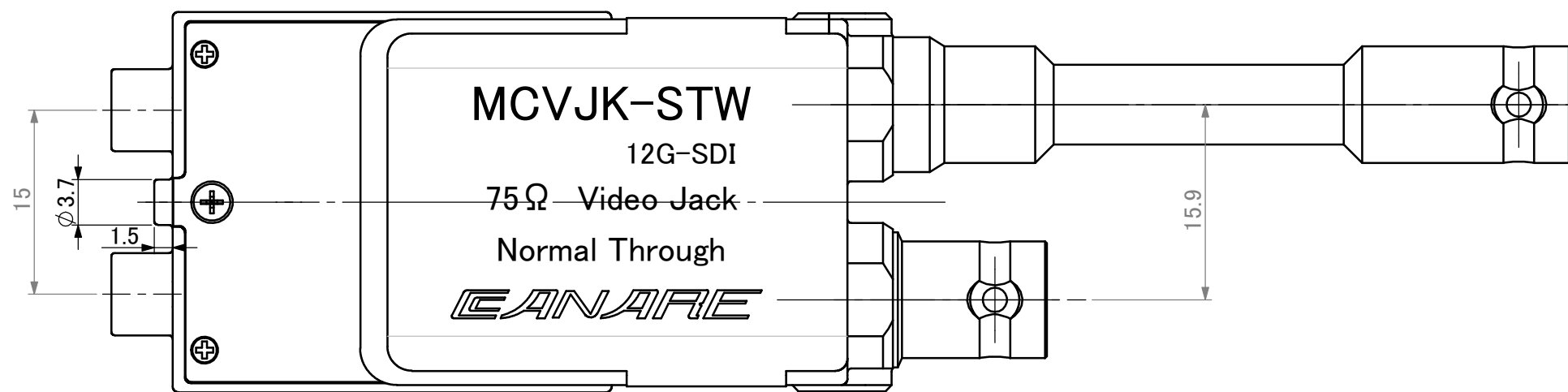
Table 3

Items	Specified values	Test methods
Change of temperature	Insulation Resistance: DC500V, 1,000MΩ or more Voltage proof: Without damage such as electric breakdown etc. Contact Resistance: Between External Contact:20mΩ or less Between Center Contact :120mΩ or less ----- Return Loss: 15dB or more (~1.5GHz) 10dB or more (~3.0GHz) 7dB or more (~6.0GHz) 4dB or more (~12.0GHz)	Performs 10 cycles of changing temperature. (-40°C as low temperature for 30min→ +85°C as low temperature for 30min) Moving the sample from low to high temperature should be done in a few minutes.

7. Measurement conditions Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15°C to 35°C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1°C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).



M2.5 TAP Depth 3.4max



W: Normal Through

1	Dual Video Jack	1	Zinc Alloy Die-Cast(Body) Aluminium Die-Cast(Adapter)	Nickel Plating
No.	Name of Parts	Pc(s).	Material	Finish
Title		PJTN	Unit Sc.	Tol.
Dual Video Jack			mm 2:1	±0.1
		Date	Ver. 1.1	Model
		2017-09-04		MCVJK-STW
		No.		
		BL509		

PRODUCT SPECIFICATIONS

(MCVJKA-ST5)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE dual video jack.**2. General Specifications**

- (1) **Product name** Dual video jack
 (2) **Model name** MCVJKA-ST5
 (3) **Nominal impedance** 75Ω unbalanced
 (4) **Construction** As shown in the drawing (BL579)
 (5) **Weight** Approx 64g
 (6) **Designation** Model name (MCVJKA-ST5) and brand name (CANARE) on label
 (7) **Connector type** Front: Canare original design
 Rear: BNC (IEC 61169-8)

3. Rating

- (1) **Operating temperature** -10°C ~ +70°C
 (2) **Operating humidity** ~ 85%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 1**

Items	Specified values	Test methods
Insulation resistance	1×10 ⁹ Ω or more (1,000MΩ or more)	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric breakdown etc.	500V a.c. shall be applied for 1 min between the contacts.
Contact resistance	Between external contacts:5mΩ or less Between center contacts :50mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a jack. (1kHz:1mA a.c.)
Return loss	15dB or more (~ 1.5GHz) 10dB or more (~ 3.0GHz) 7dB or more (~ 6.0GHz) 4dB or more (~12.0GHz)	Terminating with 75Ω and measured.
Isolation	45dB or more (~6.0GHz)	Measuring leaking signal at another port.
Insertion loss	1.5dB or less (~3.0GHz) 2.0dB or less (~6.0GHz)	Measuring attenuation value between BNC-video port.

4.2 Mechanical characteristics As shown in **Table 2****Table 2**

Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The jack and applicable plug shall be engaged.
Fixing force of plug and jack	4N or more	Measuring pull strength of video plug after 3 times of engagement and separation.
Mechanical operation (repeated)	contact resistance: Between external contacts:10mΩ or less Between center contacts :100mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 10000 cycles.

4.3 Environmental characteristics As shown in Table 3

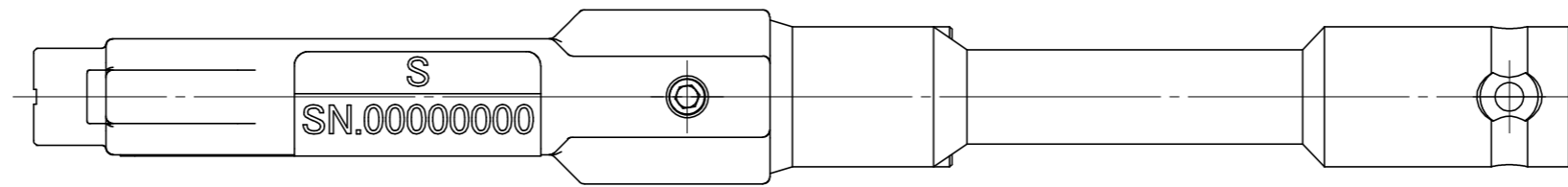
Table 3

Items	Specified values	Test methods
Change of temperature	Insulation Resistance: DC500V, 1,000MΩ or more Voltage proof: Without damage such as electric breakdown etc. Contact Resistance: Between External Contact:10mΩ or less Between Center Contact :100mΩ or less	Performs 10 cycles of changing temperature. (-40°C as low temperature for 30min→ +85°C as low temperature for 30min) Moving the sample from low to high temperature should be done in a few minutes.
	Return Loss: 15dB or more (~ 1.5GHz) 10dB or more (~ 3.0GHz) 7dB or more (~ 6.0GHz) 4dB or more (~12.0GHz)	

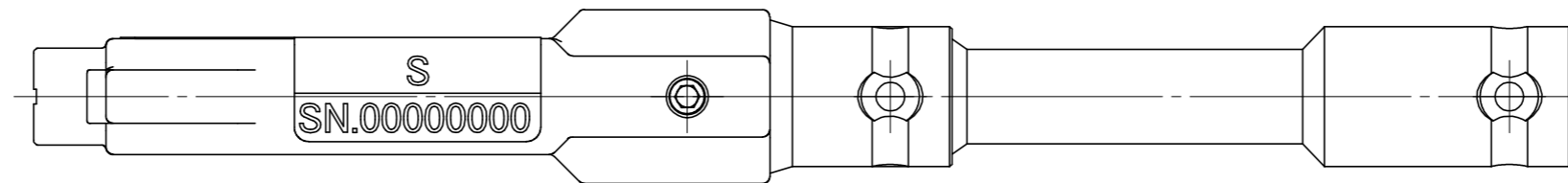
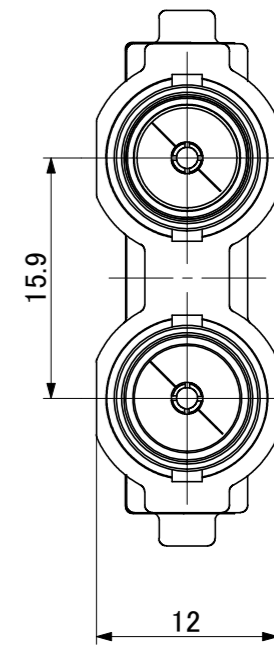
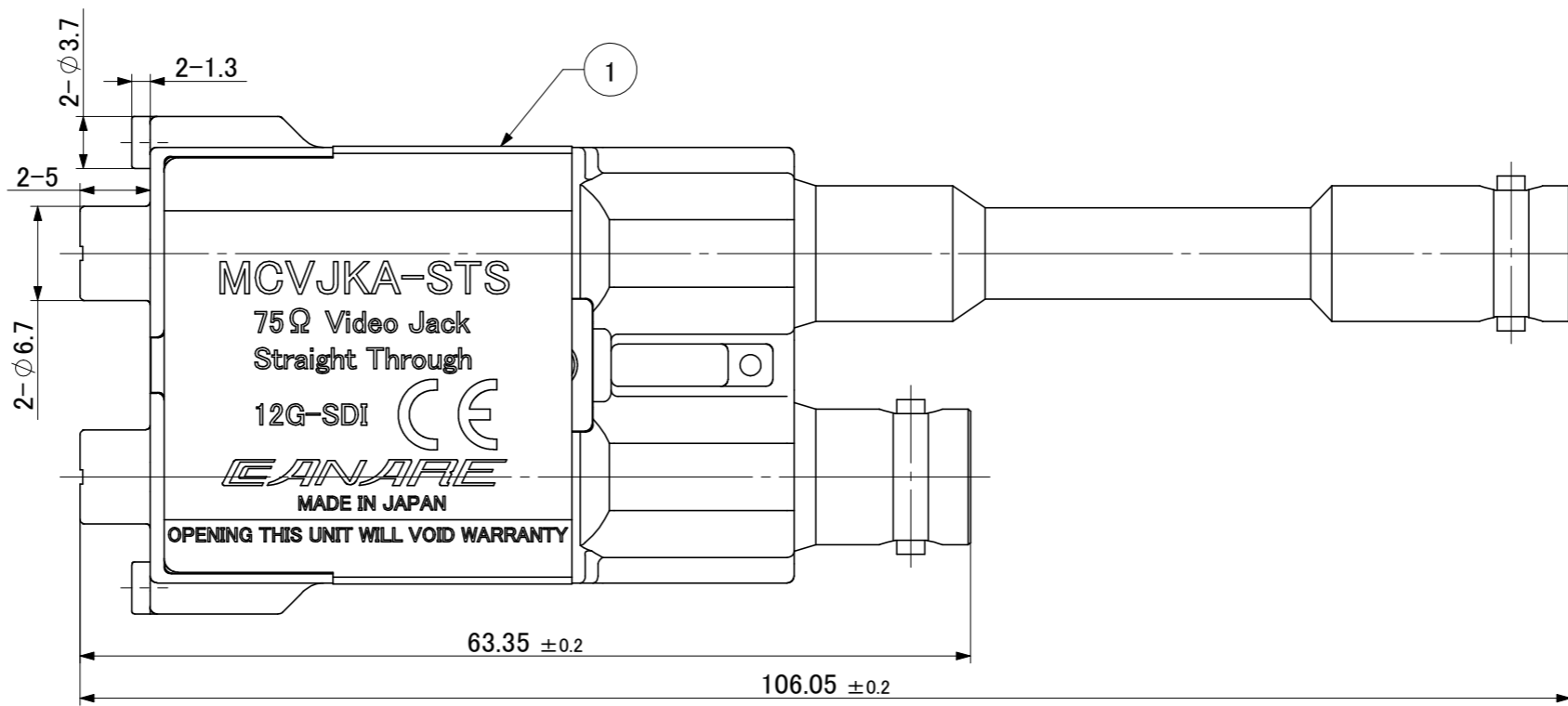
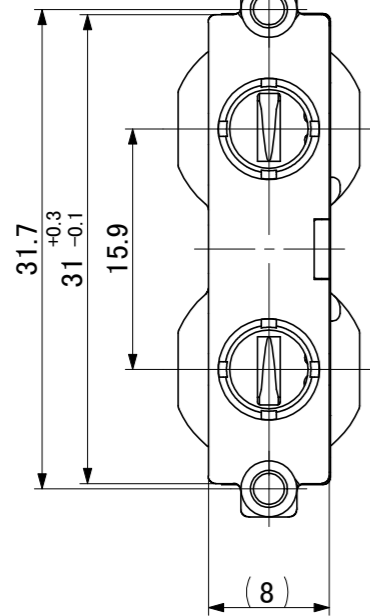
- 5. Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15°C to 35°C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1°C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A
B
C
D
E
F
G
H
I
J



2-M2.5 × 0.45
Depth 4MIN.



S : Straight Through

1	Dual Video Jack	1	Zinc Alloy Die Cast (Body)	Nickle Plating
No	NAME	Pc (s)	MATERIAL	FINISH
PROJECTION	THIRD ANGLE	UNIT	mm	SCALE
				1:1
DRAWING NAME			TYPE NAME	DRAWING No.
Dual Video Jack			MCVJKA-STs	BL579
				PAGE
				1 / 1



BOM No.

PRODUCT SPECIFICATIONS

(MCVJKA-STW)

CANARE ELECTRIC CO., LTD

1. Scope This product specification covers the performance of CANARE dual video jack.**2. General Specifications**

- (1) **Product name** Dual video jack
 (2) **Model name** MCVJKA-STW
 (3) **Nominal impedance** 75Ω unbalanced
 (4) **Construction** As shown in the drawing (BL578)
 (5) **Weight** Approx 64g
 (6) **Designation** Model name (MCVJKA-STW) and brand name (CANARE) on label
 (7) **Connector type** Front: Canare original design
 Rear: BNC (IEC 61169-8)

3. Rating

- (1) **Operating temperature** -10°C ~ +70°C
 (2) **Operating humidity** ~ 85%

4. Characteristics**4.1 Electrical characteristics** As shown in **Table 1****Table 1**

Items	Specified values	Test methods
Insulation resistance	1×10 ⁹ Ω or more (1,000MΩ or more)	Measurement shall be made between the contacts, after an electrification time of 1min with a d.c. voltage of 500V.
Voltage proof	Without any damage such as electric breakdown etc.	500V a.c. shall be applied for 1 min between the contacts.
Contact resistance	Between external contacts:5mΩ or less Between center contacts :50mΩ or less	Measurement shall be made between the contacts, with engaging a plug and a jack. (1kHz:1mA a.c.)
Return loss	15dB or more (~ 1.5GHz) 10dB or more (~ 3.0GHz) 7dB or more (~ 6.0GHz) 4dB or more (~12.0GHz)	Terminating with 75Ω and measured.
Isolation	45dB or more (~6.0GHz)	Measuring leaking signal at another port.
Insertion loss	1.5dB or less (~3.0GHz) 2.0dB or less (~6.0GHz)	Measuring attenuation value between BNC-BNC and BNC-video port.

4.2 Mechanical characteristics As shown in **Table 2****Table 2**

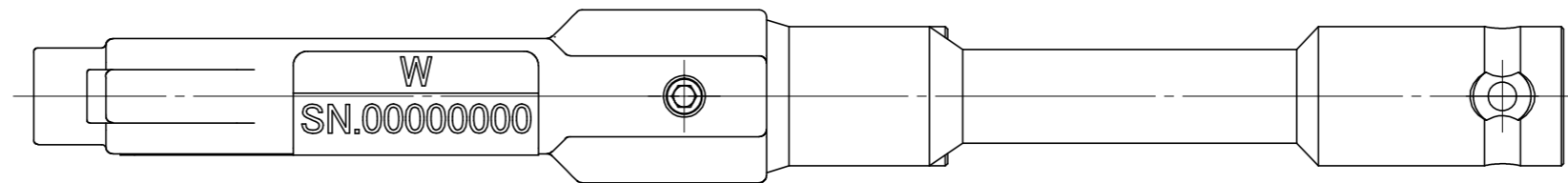
Items	Specified values	Test methods
Intermatability	To be engaged without any abnormality	The jack and applicable plug shall be engaged.
Fixing force of plug and jack	4N or more	Measuring pull strength of video plug after 3 times of engagement and separation.
Mechanical operation (repeated)	contact resistance: Between external contacts:10mΩ or less Between center contacts :100mΩ or less	The endurance test consists of repeated engagement and separation of connector pairs. The number of operations shall be 10000 cycles.

4.3 Environmental characteristics As shown in **Table 3****Table 3**

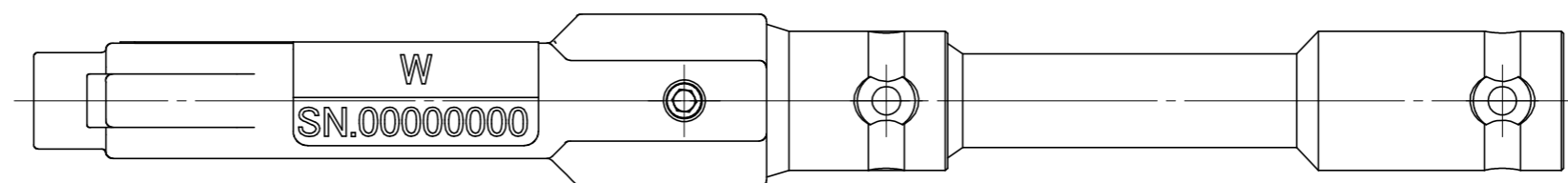
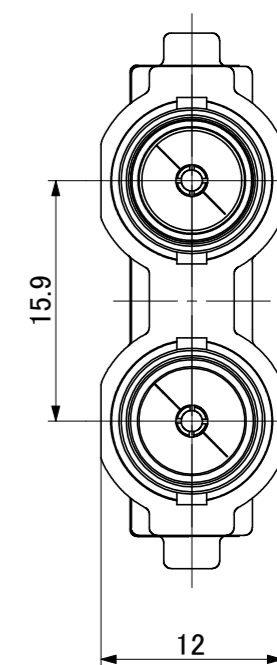
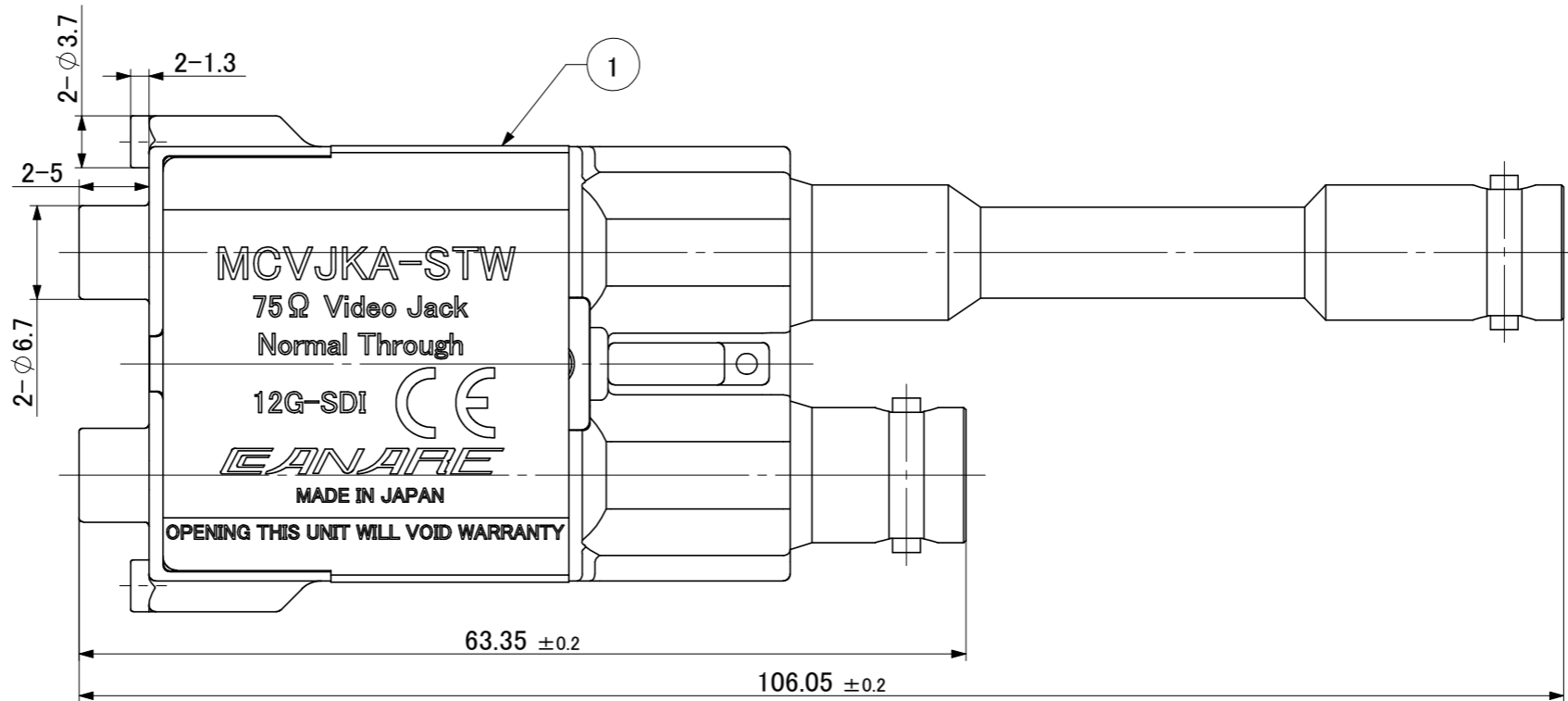
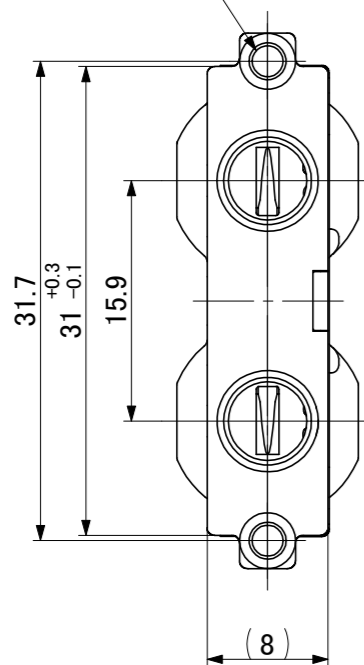
Items	Specified values	Test methods
Change of temperature	Insulation Resistance: DC500V, 1,000MΩ or more Voltage proof: Without damage such as electric breakdown etc. Contact Resistance: Between External Contact:10mΩ or less Between Center Contact :100mΩ or less ----- Return Loss: 15dB or more (~ 1.5GHz) 10dB or more (~ 3.0GHz) 7dB or more (~ 6.0GHz) 4dB or more (~12.0GHz)	Performs 10 cycles of changing temperature. (-40°C as low temperature for 30min→ +85°C as low temperature for 30min) Moving the sample from low to high temperature should be done in a few minutes.

- 5. Measurement conditions** Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows: Ambient temperature (15°C to 35°C), Relative humidity (25% to 75%), Air pressure (86kPa to 106kPa). If there is any doubt about the results, measurements shall be made within the following limits: Ambient temperature (20±1°C), Relative humidity (63% to 67%), Air pressure (86kPa to 106kPa).

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



2-M2.5 x 0.45
Depth 4MIN.

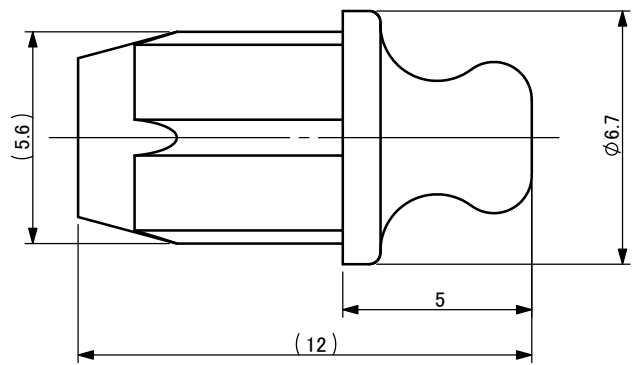
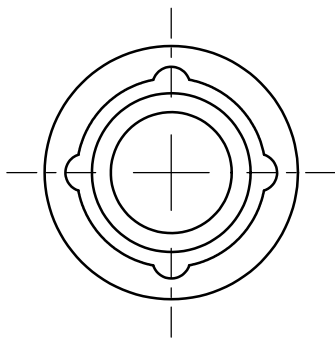


W : Normal Through

1	Dual Video Jack	1	Zinc Alloy Die Cast (Body)	Nickle Plating
No	NAME	Pc(s)	MATERIAL	FINISH
PROJECTION	THIRD ANGLE	UNIT	mm	SCALE
				1:1
DRAWING NAME			TYPE NAME	DRAWING No.
Dual Video Jack			MCVJKA-STW	BL578
DATE			Ver.	PAGE
2021-09-10			1.0	1 / 1
BOM No.				

CANAFE

A
B
C
D
E
F
G
H
I
J



No.	Name of Parts	Material	Finish				Pc(s).	
1	Dust Cap	Olefin-based elastomer(Black)	-				1	
Title		PJTN	Unit	Sc.	Tol.	Date Ver. 1.0	Model	No.
Dust Cap for Video Jack			mm	5:1	±0.1	2017-09-06	MCVJ-DC	BL561