承认书

SPECIFICATION FOR APPROVAL

客户名称

CUST	OMER	NAME:

产品名称

PRODUCT NAME: 2.4G\5.8G-5dBi 剑形 SMA 公头母针黑色天线

客户料号

CUSTOMER P/N:

公司料号

COMPANY P/N: REV: A

	MANUFACTURER	CUSTOMER
	SIGNATURE	SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2015/11/14	

Contents

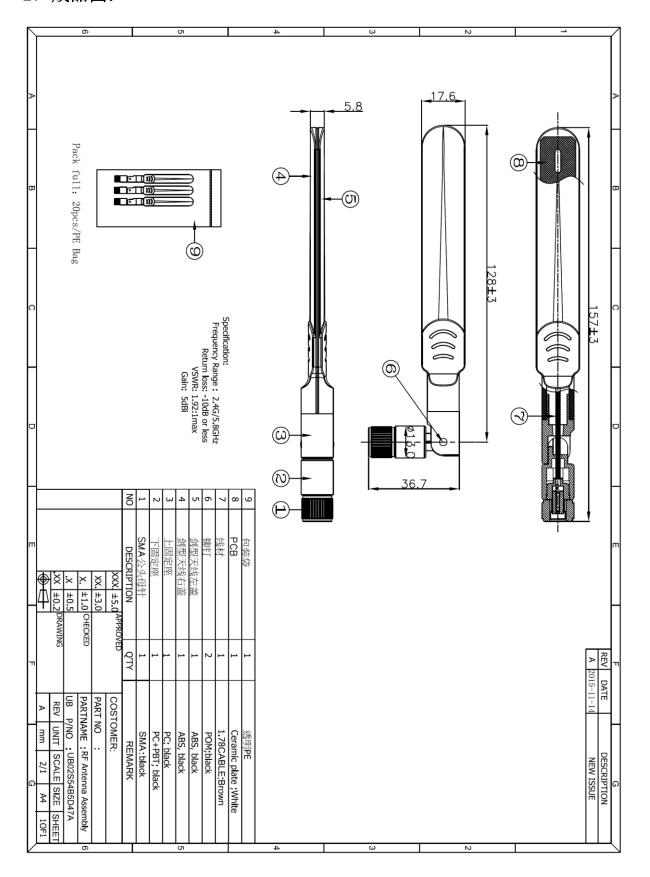
ltem	Description
1	规格表
2	成品图
3,	测试报告
4、	SGS 报告

1. 规格表:

产品主要技术参数

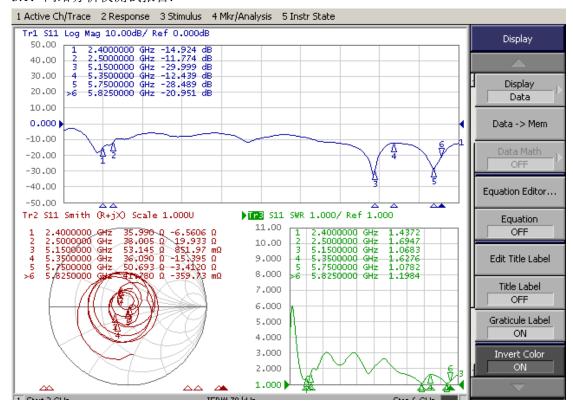
主	要技术指标	Main technic	cal specifications
频率范围 (MHZ)	2400\5800	Frequency Range (MHZ)	2400\5800
特性阻抗(Ω)	50	Impedance(Ω)	50
增益(dBi)	5±0.5	Gain(dBi)	5±0.5
输出电压 驻波比	≤ 1. 92	VSWR	≤1.92
最大功率	10W	Admitted Power	10W
极化方式	垂直极化	Polarization	Linear, Vertical
连接方式	SMA	Connector Type	SMA
4	勿理性能	Physica	al Properties
天线本体材料	ABS	Antenna Base	ABS
工作温度	-20°C~+65°C	Operating Temp	-20°C∼+65°C
保存温度	-30℃~+75℃	Storage Temp	-30℃~+75℃

2. 成品图:

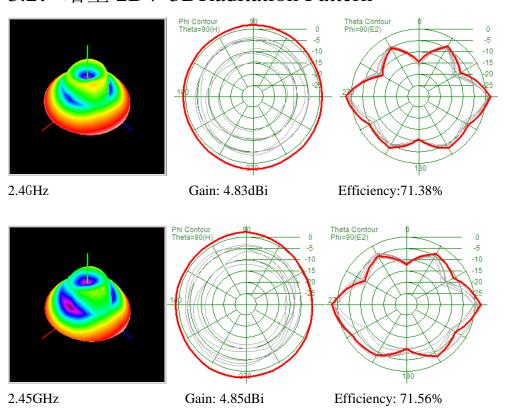


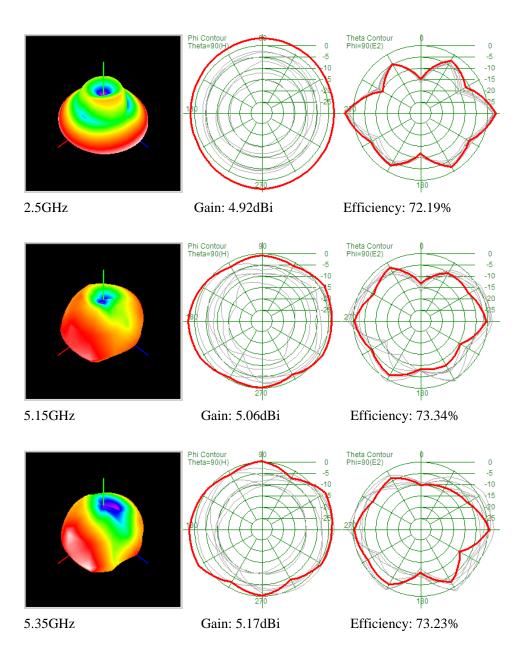
3. 测试报告

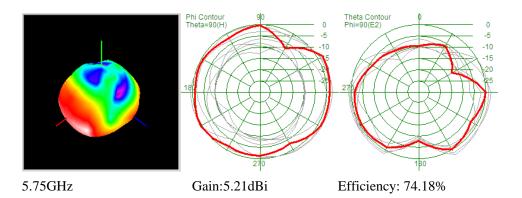
3.1: 网络分析仪测试报告:

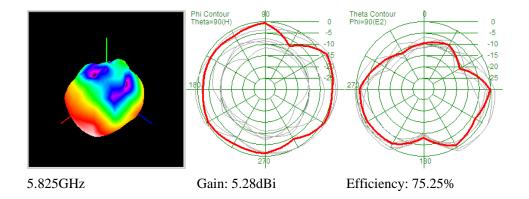


3.2: 暗室 2D、3DRaditation Pattern











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Applicant: DONGGUAN UB ELECTRONIC COMPANY LIMITED

Address: 3-4 FLOOR, NUMBER 1 SOUTHWEST ROAD, SHEK KWU INDUSTRIAL ZONE TANGXIA

TOWN, DONGGUAN CITY

CHINA

Sample Name : Transformer

SGS Job No.: CP12-056425 - SZ

Tested Basic Model No.

UBXXXXXXXX

(P.O. No.) :

Date of Sample Received: 29 Nov 2014

Verification Period: 29 Nov 2014 -07 Jan 2015

Verification Requested: With reference to RoHS Directive 2011/65/EU, and its amendment directives

Verification Method : Please refer to next page(s).

Verification Result : Please refer to next page(s).

Verification Conclusion: Based on the review of previous reports and verification results of the submitted

samples, the results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU recasting

2002/95/EC.

Note: The test results are related only to the tested items. The report shall not be

reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of SGS-CSTC Ltd.

JENNY LIAO

Approved Signatory

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Verification Method:

1.Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant

2.Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products

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- (1) Screening by XRF Spectroscopy
- (2) Wet Chemical Test Method
- a. Determination of Lead & Cadmium by ICP-OES or AAS
- b. Determination of Mercury by ICP-OES
- c. Determination of Hexavalent Chromium by Spot test or Colorimetric Method
- d. Determination of PBBs and PBDEs by GC-MS

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Part No.	Part Descripton	BOM No.	Restricted Substamces	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
1	White plastic shell		Pb	BL		Comply	29 Nov 2014
	·		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
2	White plastic part		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.1)		Cd	BL		Comply	29 NOV 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
3	White plastic nut		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.2)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
4	Silvery metal nut (in		Pb	OL	29264▲	Comply	29 Nov 2014
	No.3)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				

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Part No.	Part Descripton	BOM No.	Restricted	Results of EDXRF (1)	Wet	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
5	Silvery metal tube		Pb	OL	34278▲	Comply	29 Nov 2014
	(connected w/ No.4)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
6 -C	Silvery metal ring (in		Pb	OL	28984▲	Comply	
	No.4)		Cd	BL		Comply	29 Nov 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
7	White plastic ring (in		Pb	BL		Comply	29 Nov 2014
	No.4)		Cd	BL		Comply	25 1404 2011
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
8	Red rubber ring (in No.4)		Pb	BL		Comply	29 Nov 2014
			Cd	BL		Comply	201400 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	

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Part No.	Part Descripton	BOM No.	Restricted	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
9	White plastic tube (in		Pb	BL		Comply	29 Nov 2014
	No.5)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
10	Golden metal tube (in		Pb	OL	24932▲	Colmply	29 Nov 2014
	No.9)		Cd	BL		Comply	29 NOV 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
11	Silvery metal part (in		Pb	BL		Comply	29 Nov 2014
	No.2)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
12	Silvery metal tube (in		Pb	OL	30455▲	Comply	29 Nov 2014
	No.11)		Cd	BL		Comply	_5 1.07 Z01 T
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				

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Part No.	Part Descripton	BOM No.	Restricted	Results of EDXRF (1)	Wet	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
13	Golden metal rod (in		Pb	BL		Comply	29 Nov 2014
	No.1)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
14	Black foam ring (on		Pb	BL		Comply	29 Nov 2014
	No.13)		Cd	BL		Comply	25 1107 2011
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
15	Silvery metal rod		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.13)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
16	Black plastic (heat		Pb	BL		Comply	29 Nov 2014
	shrinkable tube) (on		Cd	BL		Comply	25 1404 2011
	No.15)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	

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Part No.	Part Descripton	BOM No.	Restricted Substamces	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
17	Golden metal tube		Pb	OL	30411▲	Comply	29 Nov 2014
	(connected w/ No.16)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
18	White glue (connected w/		Pb	BL		Comply	29 Nov 2014
	No.16)		Cd	BL		Comply	23 1100 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
19	White plastic cover		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.17)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
20	Pink transparent plastic		Pb	BL		Comply	29 Nov 2014
	(cable jacket) (connected		Cd	BL		Comply	
	w/ No.19)		Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	

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Part No.	Part Descripton	BOM No.	Restricted	Results of EDXRF (1)	Wet	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
21	Silvery metal wire (in		Pb	BL		Comply	29 Nov 2014
	No.20)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
22	White plastic (wire		Pb	BL		Comply	29 Nov 2014
	insulation) (in No.21)		Cd	BL		Comply	25 1404 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
23	Black plastic shell		Pb	BL		Comply	29 Nov 2014
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
24	Black plastic part		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.23)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	

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Part No.	Part Descripton	BOM No.	Restricted Substamces	Results of EDXRF (1)	Wet	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
25	Grey plastic (cable jacket)		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.24)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
26	Transparent plastic (wire		Pb	BL		Comply	29 Nov 2014
	insulation) (in No.25)		Cd	BL		Comply	25 1000 2014
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
27	Golden metal rod (in		Pb	BL		Comply	29 Nov 2014
	No.23)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				
28	Silvery metal rod		Pb	BL		Comply	29 Nov 2014
	(connected w/ No.27)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				

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Part No.	Part Descripton	BOM No.	Restricted	Results of EDXRF (1)	Wet	Conclusion on EU RoHS	Sample Submittedl Resubmtted Date
29	Golden metal tube		Pb	OL	31558▲	Comply	29 Nov 2014
	(connected w/ No.28)		Cd	BL		Comply	23 1101 201 1
			Hg	BL		Comply	
			Cr(VI)	BL		Comply	
			PBBs				
			PBDEs				

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Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
 - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL \leq (70-3 σ) $<$ X $<$ (130+3 σ) \leq OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	$BL \le (500-3\sigma) < X$

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer and composite sample is 2 mg/kg.

(c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative. Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

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(d)▲= According to the declaration from the client, Lead (Pb) in No.4, No.5, No.6-C, No.10, No.12, No.17 & No.29 are exempted by EU RoHS Directive 2011/65/EU based on: Copper alloy containing up to 4 % lead by weight.

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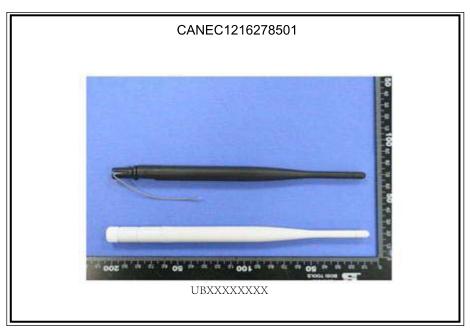


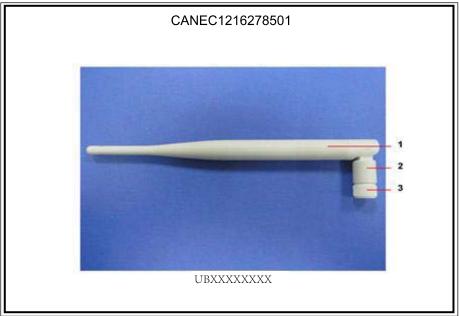
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Sample photo:





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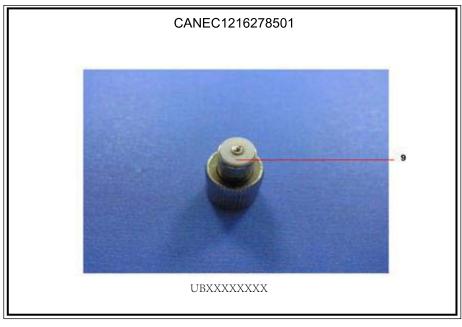
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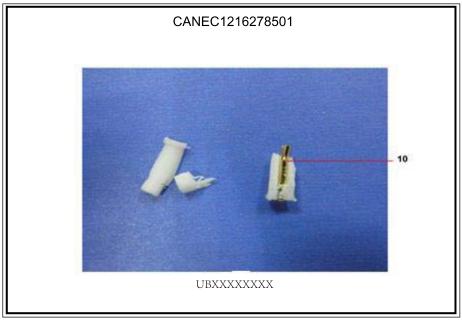


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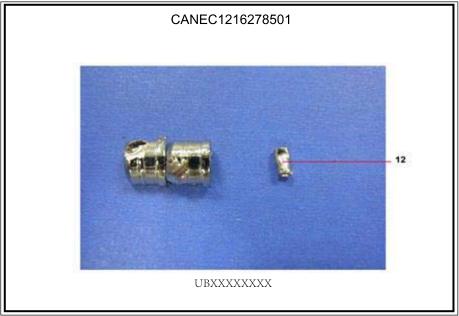


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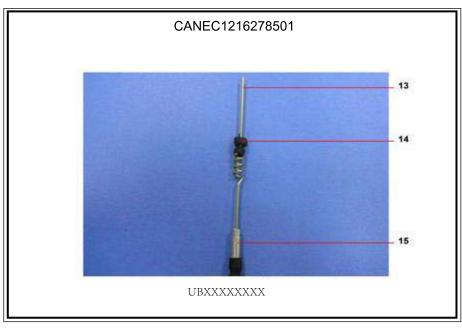
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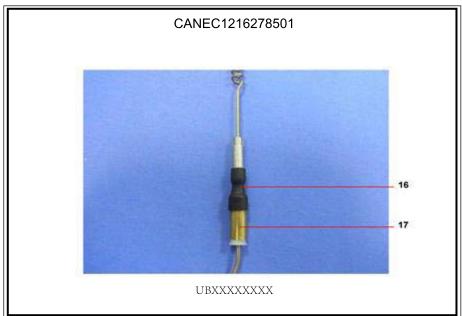


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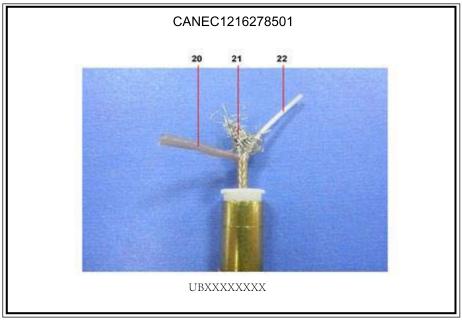


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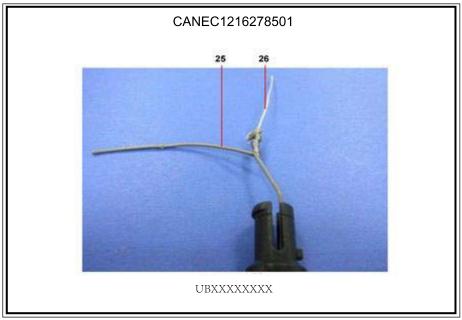


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