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Product Number: DS2400-1012NF

Product Name: Antenna



1. Revision History


Revision	Date	Change Notification	Description
1.0			

Product Number: DS2400-1012NF

Product Name: Antenna



2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz
S.W.R.	≤ 2.0
Antenna Gain	12 dBi
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	Cu & Zn-Alloy
Material of Plastic	Body: Glass Fiber
Cable Type	RG 316D
Connector Type	N Jack
Connector Pull Test	≥ 8 Kg
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Product Number: DS2400-1012NF

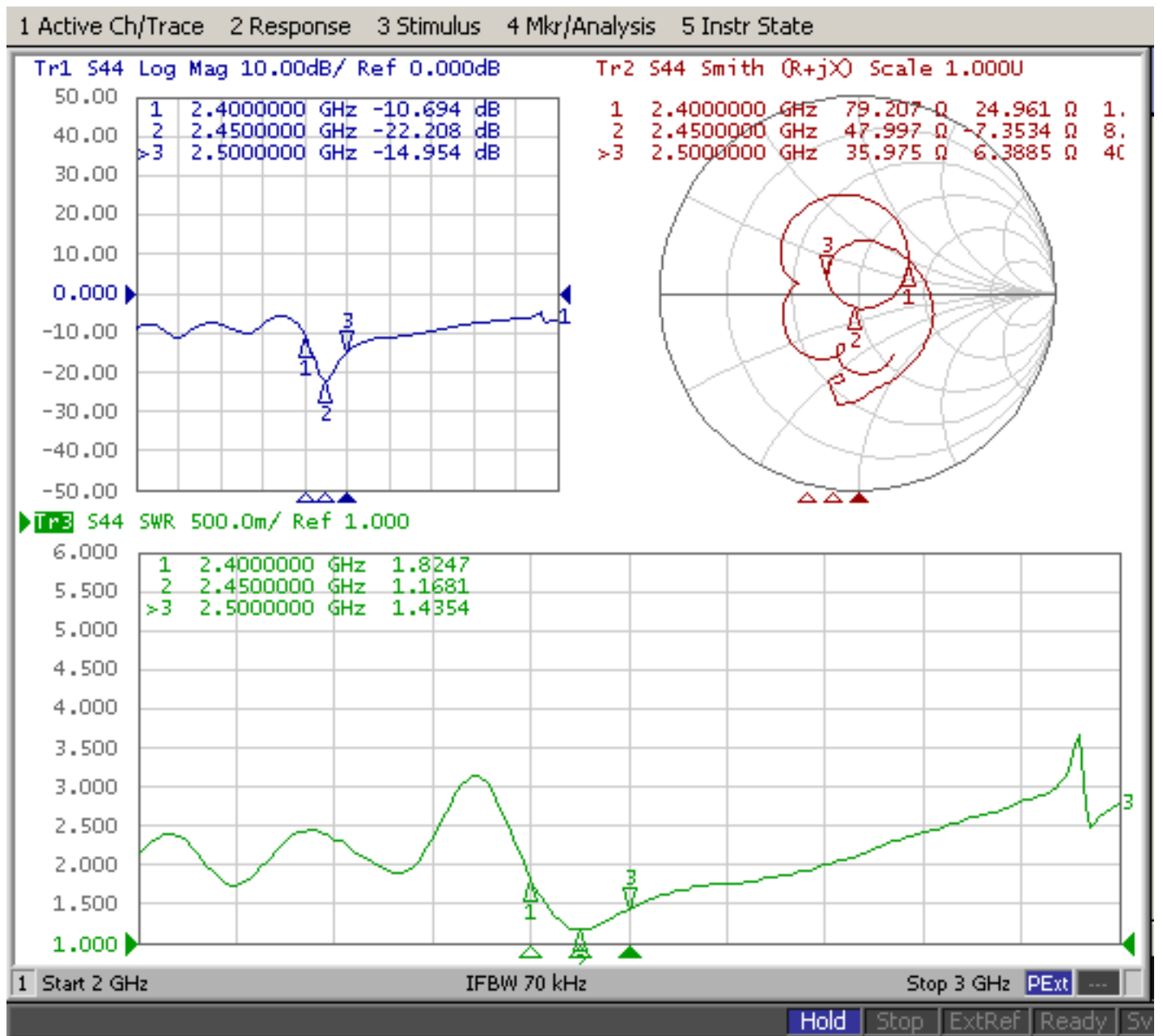
Product Name: Antenna



3. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU
R2	PFOS	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

4. Antenna - S Parameter Test Data



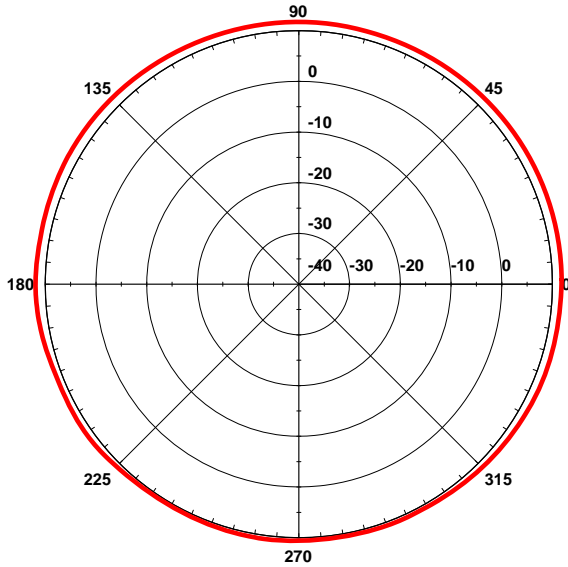
Product Number: DS2400-1012NF

Product Name: Antenna



5. Antenna - Radiation Pattern Test Data

2450MHz

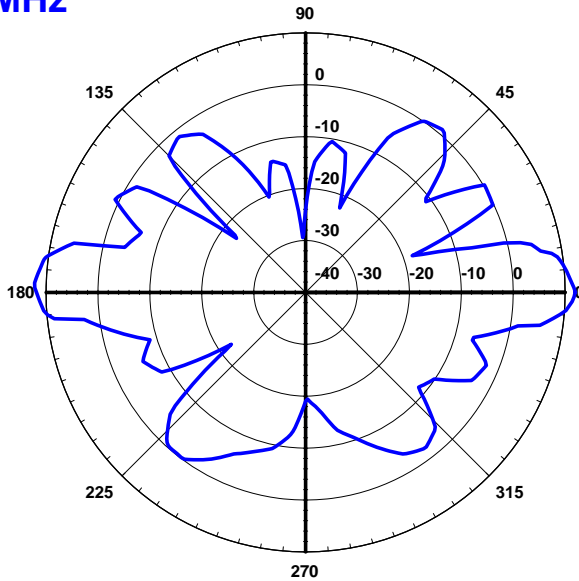


H-Vertical

Ver. Pol. (max.)=	12.0
Ver. Pol. (avg.)=	11.1

Unit: dBi

2450MHz



E-Horizontal

Hor. Pol. (max.)=	12.0
Hor. Pol. (avg.)=	1.9

Unit: dBi

6. Mechanical Drawing

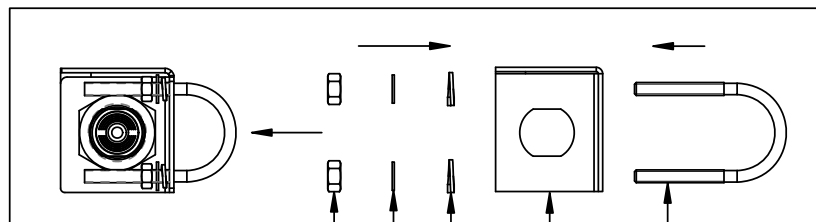
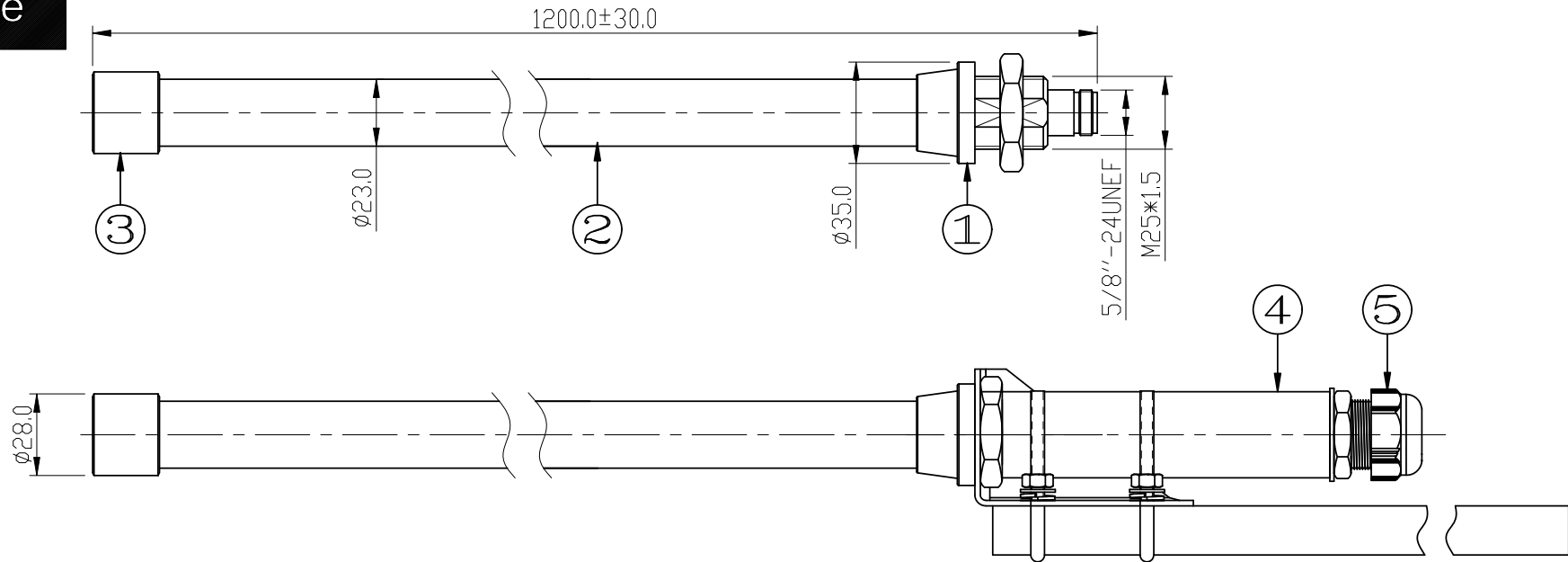
See attached files

7. Material Description and RoHS Test Report

See attached files

RoHS Compatible


SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



Note:

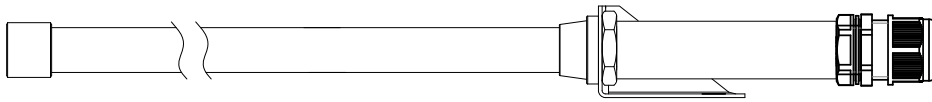
1. Dimension: Take * is the important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please

10	R-DS10-08	Nut	Iron	Ni Plated	4
9	R-DS10-07	Flat Washer	Iron	Ni Plated	4
8	R-DS10-06	Spring Washer	Iron	Ni Plated	4
7	R-DS10-19	Fixed Support	Iron	Zn Plated	1
6	R-DS10-05	U Type Screw	Iron	Ni Plated	2
5	R-DS10-26	Bundle		Ni Plated	1
4	R-00N-TUBE-120G	Tube	Aluminum	∅29.5*120mm	1
3	R-DS10-01A	Cover	Zn Alloy	Ni Plated	1
2	R-DS1012-01	Glass Fiber Tube	Glass Fiber	∅23.0*1147mm	1
1	R-00N205-ZN8FNANT	N Jack	Zn Alloy	Ni Plated	1
No.	Part Number	Description	Material	Finish	Q'ty

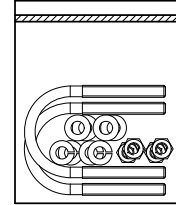
Invax System Group.		Cortec Technology Inc.	
		Http://www.invaxsystem.com E-mail: info@invax.com.tw	
		Tel : 886-2-27885218 Fax: 886-2-27831658	
PART NAME: Outdoor Antenna - 2.4GHz - 12dBi			
PART NO.: DS2400-1012NF		DWG NAME: DS2400-1012NF.dwg	
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.30 X.XX ±0.15 X° ±3°
Grant 2008/01/02	Jack 2008/01/02	Roger 2008/01/02	
UNITS: mm SCALE: 1/2.5 REVISION: A			

Part Number : DS2400-1012NF	Revision : A
Name: AP ANTENNA	Customer : All

一. 組裝配件

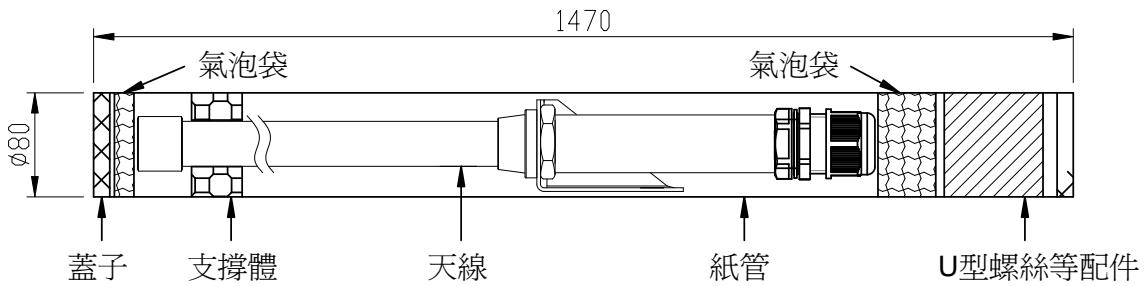


將鐵架、螺母、鋁管、束線器裝配在天線上



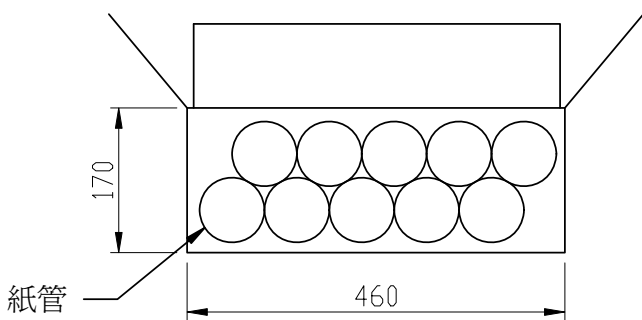
U型螺絲等裝於夾鏈袋

二. 裝天線入紙管



注：需在適當的位置加些氣泡袋等防止天線及配件晃動

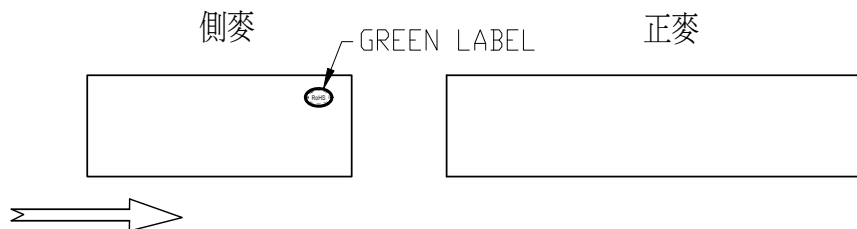
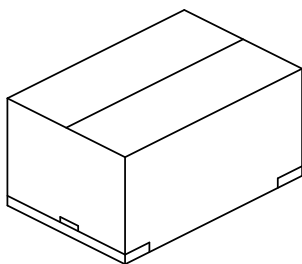
三. 裝箱



(此為側麥，CARTON 長度為1510mm)

10PCS/CARTON

四. 封箱



UNITS: mm

請輸入以下報告正確資料及檢查碼以便查核

1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)



康捷電子有限公司	
填表：	時麗
部門：	研發部
職務：	文員

物料中HSF對象物質含量調查表

物料名稱：DS2400-1012NF

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS對應物質測試結果						檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs				
1	R-00N205-ZN8FNANT R-DS10-01A	N Jack Cover	鋅合金	N.D.	15	N.D.	Negative	N.D.	N.D.	A001R121106068001-1	2012.11.09	鋅合金鍍	AOV
2			鍍鎳	N.D.	10	N.D.	Negative			CANML1307214802	2013.05.22	Ni terminal	SGS
3	R-DS1012-01	Glass Fiber	玻璃纖維管	N.D.	N.D.	N.D.	N.D.			CANML1217921302	2013.01.05	Coating paint.	SGS
4			PU金油	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANML1217921303	2013.01.05	Light gold paint	SGS
5			PU白	N.D.	5	N.D.	N.D.	N.D.	N.D.	CANML1217921304	2013.01.05	PU white	SGS
6	R-RG-316	Cable	FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RHS05F011891001E	2013.08.26	电线电缆料	CTI
7			PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	RHS05F011891002E	2013.08.26	电线电缆料	CTI
8			鍍銀銅	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	RHS05F011891004E	2013.08.26	电线电缆料	CTI
9	R-AN88-07	Tube	銅	N.D.	14	N.D.	Negative	N.D.	N.D.	CANML1216541101	2012.12.05	C2700	SGS
10	R-AN10-26 R-AN10-27	Spring	銅	66	31000	N.D.	Negative			CE201314616	2013.01.28	REECUTTINGBRASSBA	SGS
11	R-HSTUBE-009N-01	HST	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1303661001	2013.03.28	HEAT SHRINKABLE	SGS
12	R-DS10-05 R-DS10-19	U Type Screw Fixed Support Spring Washer Flat Washer	Iron	N.D.	N.D.	N.D.	Negative	N.D.	N.D.	F690101/LF-CTSAYAA13-05114	2013.02.04	AYAA13-05114	SGS
13	R-DS10-06 R-DS10-07		鍍鎳	N.D.	10	N.D.	Negative			CANML1307214802	2013.05.22	Ni terminal	SGS
14	R-AN5225013-Z	Tube	鋅合金	N.D.	15	N.D.	Negative	N.D.	N.D.	A001R121106068001-1	2012.11.09	鋅合金鍍	AOV

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量

包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm

歐盟ROHS指令豁免條款2009/95/BC、鋼中合金元素中的鉛含量達0.35%、鋁含量達0.4%、銅合金中的鉛含量達4%