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TEST REPORT

Product Name: VOLTAGE AND OVEN CONTROLLED CRYSTAL OSCILLATORS (VCOCXO)

Type: OX SERIES PRODUCTS

Test Category: Commission Test

Manufacturer: GUANGZHOU TIANMA TELECOM TECHNOLOGY CO., LTD.

Applicant: GUANGZHOU TIANMA TELECOM TECHNOLOGY CO., LTD.



CHINA CEPREI LABORATORY
CEPREI (The 5th Electronic Institute of MII)

Reliability Research and Analysis Center



Test Report

Applicant: GUANGZHOU TIANMA TELECOM TECHNOLOGY CO., LTD.
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Date Submitted: July 28, 2006

Test Period: July 28, 2006 to August 8, 2006

Sample Description: VOLTAGE AND OVEN CONTROLLED CRYSTAL OSCILLATORS (VCOXO)
Sample Serial No.: HS1147 Type: OX SERIES PRODUCTS Brand: TIANMA TELECOM

Test Items: Test the Contents of Pb, Cd, Hg, Cr⁶⁺, PBBs and PBDEs in the Sample

Test Requirement: 2002/95/EC, 2005/618/EC
Restriction of Hazardous Substances (RoHS)

Test Method: IEC 62321 Ed. 1 Procedures for the determination of levels of regulated substances in electrical products

Test Ambient: 25~26°C, 49~56RH%, 10m/s

Test Instruments: 1) UV-Vis Spectrophotometer UV-Vis1240 / No.7434080002
2) Atom Absorption Spectrometer AAS300 / No.011701169
3) Gas Chromatograph-mass Spectrometer System Trace MS 2000 / No.410101015
4) Electronic Balance BP190S / No.011701146

Test Result: Refer to Page 6 to 7

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Reliability Research and Analysis Center

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2006.8.15

1. Sample Description

One piece of VOLTAGE AND OVEN CONTROLLED CRYSTAL OSCILLATORS (VCOCXO) and some of its components were presented by the client for testing. The representative view of the sample and its components are shown in Fig.1to Fig.4.



Fig.1 The View of Sample

2. Test Methods & Instruments Used:

According to the requirements of EU-REHS, RoHS compliance test shall be done on homogenous materials in the equipments. So the sample shall be disjointed into single homogenous materials prior to testing start. The sampling results and specimen information have been detailed in Table1. It should be noticed that some parts tested can not be disjointed into homogenous materials and are not homogenous materials, because they are too small or complex to be further disjointed mechanically. Per IEC62321, six hazardous substances shall be tested. Test methods and instruments used are detailed in Table 2. Test results detailed in table 3.

Table 1 Description of the Components

Serial No.	Part Name	Description	
		Type	Location
1#	Resistors	0805, 0603	R1~R41
2#	Thermistors	0805, 0603	RT1, RT2
3#	Porcelain Capacitors	0805, 0603	C1~C24, C26~C33, Pedestal C1~C6
4#	Tantalum Capacitors	3216, 0805	C25
5#	Inductors	0805, 0603	L1~L6, Pedestal L1~L2