

Integrated Device Technology, Inc. 6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUC	T/PROCESS CH	HANGE NOTICE (PCN)					
PCN #: A1208-06 Date: Product Affected: SOIC-16	November 16, 2012	MEANS OF DISTINGUISHING CHANGED DEVICES:  ■ Product Mark  □ Back Mark  □ Date Code					
Date Effective: February 16, 20	013	☐ Other					
Contact: Bimla Paul Title: Product Quality Assurant Phone #: (408) 574-6419 Fax #: (408) 284-8362 E-mail: Bimla.Paul@idt.com	ce Attachmer Samples:	nt: Yes ☐ No  Available upon request					
	CHANCE.						
DESCRIPTION AND PURPOSE OF  □ Die Technology □ Wafer Fabrication Process □ Assembly Process □ Equipment ■ Material □ Testing ■ Manufacturing Site □ Data Sheet □ Other	This notification is to adv the device. The new part changes to the electrical p	rise our customers to switch to the RoHS-compliant version of is pin-to-pin compatible with the old part. There are no parameters or MSL specification.  Fold part is May 16, 2013, with last ship date August 16, 2013.  Fold changes. See attachment 1, Table 1 for the qualification details.					
	attachment 2 for details.  The new parts use a difference of the second	tinguished by a change to the orderable part numbers. See rent crystal, part number CM7V-T1A from Micro Crystal. See sheet and material declaration of the new crystal.					
RELIABILITY/QUALIFICATION S	SUMMARY:						
Qualification has passed. There is no c	hange in MSL rating.						
to grant approval or request additional it will be assumed that this change is a	written notification of this conformation. If IDT does receptable.	change. Please use the acknowledgement below or E-Mail not receive acknowledgement within 30 days of this notice me process change effective date until the inventory					
Customer:		oval for shipments prior to effective date.					
Name/Date:	E-Mail Addre	ss:					
Title:	Phone# /Fax#	:					
CUSTOMER COMMENTS:							
IDT ACKNOWLEDGMENT OF RE	IDT A CUNOWI EDCMENT OF DECEIPT.						
RECD. BY:		ATE					

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### PRODUCT/PROCESS CHANGE NOTICE (PCN)

#### **ATTACHMENT 1 - PCN # : A1208-06**

**PCN Type:** Material and Manufacturing Location Change

**Data Sheet Change:** Yes, new part is RoHS-compliant. No change in MSL specification.

#### **Detail Of Change:**

This notification is to advise our customers to switch to the RoHS-compliant version of the device. The new part is pin-to-pin compatible with the old part. There are no changes to the electrical parameters or MSL specification.

The last time buy for the old part is May 16, 2013, with last ship date August 16, 2013.

There are multiple material changes. See attachment 1, Table 1 for the qualification summary and material set details.

The new products are distinguished by a change to the orderable part numbers. See attachment 2 for details.

The new parts use a different crystal, part number CM7V-T1A from Micro Crystal. See attachment 3 for the data sheet and material declaration of the new crystal.

Table 1: Material info

Description	Old	New
Fab Location	Fab 4	TSMC
Assembly Location	Hana	Carsem
Crystal Type	MS3V-T1N	CM7V-T1A
Mold Compound	G600	CEL-8240HF10LX
Die Attach	84-1LMISR4	QMI1519
Bond Wire	Au Wire	Au Wire
RoHS-Compliant	No	Yes



## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### **ATTACHMENT 1 - PCN # : A1208-06**

### Qualification Test Plan and Qual Data

Product Type: IDT1337

Device Family: AP510 Process Technology: 0.18 um

Package Type: SOIC-16L Fab Location: TSMC

#### **Test Description**

Test	Conditions	Lot #1	Lot #2	Lot #3
Device Characterization	IDT's data sheet conditions	5/0	5/0	5/0
High Temperature Operating Life (Dynamic)	JESD22-A108, +125°C @ 1000 hours or equivalent	77/0	77/0	77/0
Early Failure Rate (Dynamic)	JESD22-A108, +125°C @ 48 hours or equivalent	1176/0	1167/0	1171/0
ESD: Human Body Model	Mil-Std-883, method 3015, JESD22-A114-B	5/0	N/A	N/A
ESD: Charged Device Model	JESD22-C101B.01	5/0	N/A	N/A
Latch-up	EIA/JESD78	6/0	N/A	N/A
Solderability	JESD22-B102D	5/0	5/0	5/0
Temperature Cycle	JESD22-A104, @ -55°C to 125°C for 700 cycles or equivalent	25/0	25/0	25/0
Highly-Accelerated Temperature and Humidity Stress Test (HAST)	JESD22-A110, @130°C/85%RH static bias at Vegmax for 100 hours	25/0	25/0	25/0
High Temperature Storage	JESD22-A103A, @150°C for 1000 hours	25/0	25/0	25/0
Moisture Resistance	JESD22A-A113D	25/0 Level 3	25/0 Level 3	N/A
Mechanical Vibration	JESD22B-103A 20 to 2000Hz/20G Peak	15/0	15/0	15/0
Mechanical Shock	JESD22B-104C 1500G Peak/0.5msec	15/0	15/0	15/0
Wire Pull Strength	MIL-STD-883D, 2011.7	5/0	5/0	5/0
Ball Shear Strength	JESD22-B11	5 /0	5/0	5/0

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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

## **ATTACHMENT 2 - PCN # : A1208-06**

#### **Affected Part Numbers**

Old Part Number	New Part Number
1337GCSRI	1337AGCSRGI
1337GCSRI8	1337AGCSRGI8



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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



#### The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : QUARTZ CRYSTAL RESONATOR

Style/Item No. : CC-TYPES (CC1/CC4/CC5/CC6/CC7/CM7/CM8) WITH MARKING

Manufacturer/Vendor : MICRO CRYSTAL AG

Country Of Origin : SWITZERLAND

Sample Receiving Date : 2007/07/20 AND 2008/02/14 AND 2010/08/31 AND 2011/10/27

**Testing Period** : 2007/07/20 TO 2007/07/30 AND 2007/07/30 TO 2007/08/03 AND

2008/02/14 TO 2008/02/21 AND 2010/08/31 TO 2010/09/07 AND

2011/10/27 TO 2011/11/03

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

\* This report is combined with reports of CE/2010/86004A and CE/2011/A5193 \*



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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



#### Test Result(s)

PART NAME No.1 : QUARTZ CRYSTAL (CE/2007/74957) PART NAME No.2 : QUARTZ CRYSTAL (CE/2008/21880) PART NAME No.3 : QUARTZ CRYSTAL (CE/2010/86004) PART NAME No.4 : QUARTZ CRYSTAL (CE/2011/A5193)

Toot Itom(o)	Unit	Method	MDL		Res	sult	
Test Item(s)	Onit	Metriou	MIDL	No.1	No.2	No.3	No.4
Cadmium (Cd)	Cadmium (Cd) mg/kg With reference to IEC 62321, Ed. 1 111/54/CDV. Determination of Cadmium by ICP-AES.		2	n.d.			
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2			n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed. 1 111/54/CDV. Determination of Lead by ICP-AES.	2	n.d.			
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2			n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed. 1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.			
	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2			n.d.	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321, Ed. 1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.			
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2			n.d.	n.d.
Antimony (Sb)	mg/kg	With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES.	2		n.d.		
Phosphorus (P)	mg/kg	With reference to US EPA 3050B for Phosphorus Content. Analysis was performed by ICP-AES.	2		n.d.		

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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



Took (40m/c)	Test Item(s) Unit Method		MDI	Result				
Test Item(s)	Unit	Method	MDL	No.1	No.2	No.3	No.4	
Halogen								
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50		n.d.			
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50		n.d.			
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50		n.d.			
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50		n.d.			
Sum of PBBs			-			n.d.	n.d.	
Monobromobiphenyl			5			n.d.	n.d.	
Dibromobiphenyl	1	-	5			n.d.	n.d.	
Tribromobiphenyl			5			n.d.	n.d.	
Tetrabromobiphenyl			5			n.d.	n.d.	
Pentabromobiphenyl		Ţ				n.d.	n.d.	
Hexabromobiphenyl			5			n.d.	n.d.	
Heptabromobiphenyl			5			n.d.	n.d.	
Octabromobiphenyl			5			n.d.	n.d.	
Nonabromobiphenyl			5			n.d.	n.d.	
Decabromobiphenyl	ma/ka	With reference to IEC 62321: 2008 and	5			n.d.	n.d.	
Sum of PBDEs	mg/kg	performed by GC/MS.	-			n.d.	n.d.	
Monobromodiphenyl ether			5			n.d.	n.d.	
Dibromodiphenyl ether			5			n.d.	n.d.	
Tribromodiphenyl ether			5			n.d.	n.d.	
Tetrabromodiphenyl ether			5			n.d.	n.d.	
Pentabromodiphenyl ether			5			n.d.	n.d.	
Hexabromodiphenyl ether			5			n.d.	n.d.	
Heptabromodiphenyl ether			5			n.d.	n.d.	
Octabromodiphenyl ether			5			n.d.	n.d.	
Nonabromodiphenyl ether			5			n.d.	n.d.	
Decabromodiphenyl ether			5			n.d.	n.d.	

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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



Toot Itom/o)	Unit	Method	MDL		Res	sult	
Test Item(s)	Unit	Wiethod	WIDL	No.1	No.2	No.3	No.4
Sum of PBBs			-	n.d.			
Monobromobiphenyl			5	n.d.			
Dibromobiphenyl			5	n.d.			
Tribromobiphenyl			5	n.d.			
Tetrabromobiphenyl			5	n.d.			
Pentabromobiphenyl			5	n.d.			
Hexabromobiphenyl			5	n.d.			
Heptabromobiphenyl			5	n.d.			
Octabromobiphenyl		With reference to IEC 62321, Ed. 1	5	n.d.			
Nonabromobiphenyl			5	n.d.			
Decabromobiphenyl			5	n.d.			
Sum of PBDEs	mg/kg	111/54/CDV. Determination of PBB and PBDE by GC/MS.	-	n.d.			
Monobromodiphenyl ether		and i BBE by GG/MG.	5	n.d.			
Dibromodiphenyl ether			5	n.d.			
Tribromodiphenyl ether			5	n.d.			
Tetrabromodiphenyl ether			5	n.d.			
Pentabromodiphenyl ether		-	5	n.d.			
Hexabromodiphenyl ether			5	n.d.			
Heptabromodiphenyl ether			5	n.d.			
Octabromodiphenyl ether			5	n.d.			
Nonabromodiphenyl ether			5	n.d.			
Decabromodiphenyl ether			5	n.d.			

#### Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. "---" = Not Conducted

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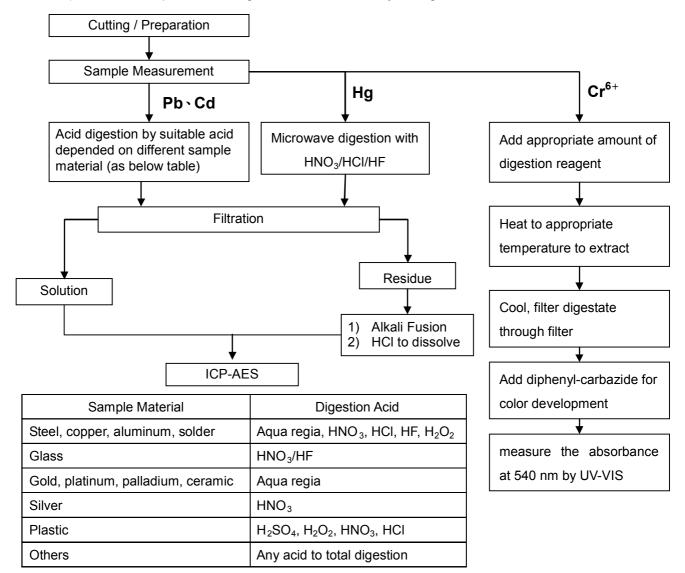


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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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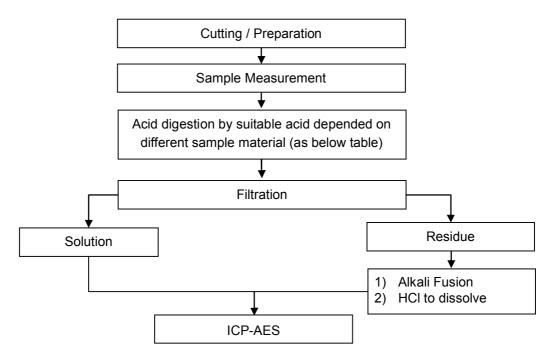
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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

#### Flow Chart of digestion for the elements analysis performed by ICP-AES



Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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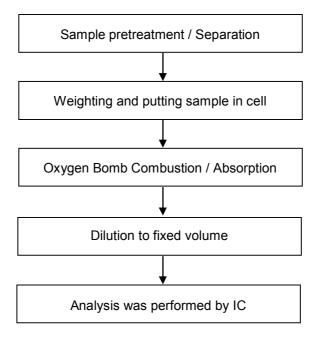
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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



#### Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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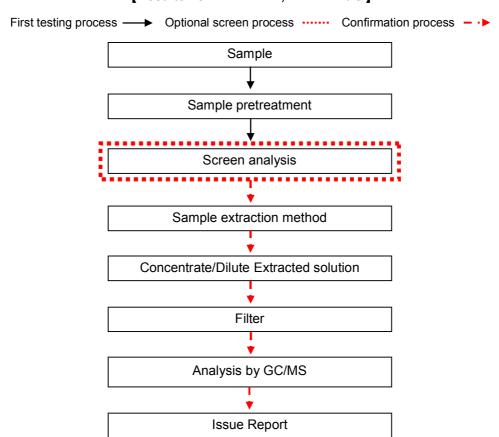
MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



#### Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test Items: PBB/PBDE, TBBP-A-bis]



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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND



\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

PART NAME No.1



#### PART NAME No.2



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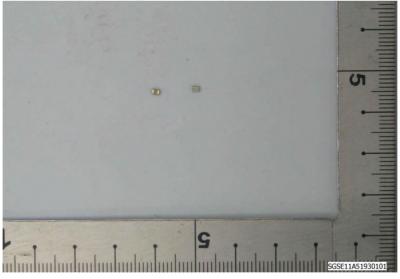
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MICRO CRYSTAL AG MUEHLESTRASSE 14, CH-2540, GRENCHEN, SWITZERLAND PART NAME No.3



PART NAME No.4

CE/2011/A5193



\*\* End of Report \*\*

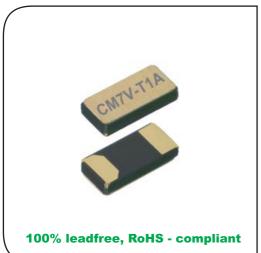
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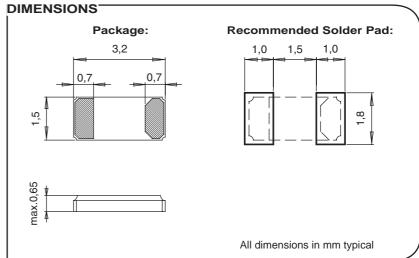
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# CM7V-T1A

**Tuning Fork Crystal 32.768 kHz** 





Miniature SMT ceramic package with metal lid Low package height 0.65 mm max. SMD-package in Tape and Reel Ind. and Ext. temperature ranges AEC-Q200 automotive compliant High stability, Low aging Low power consumption High shock and vibration resistance

## DESCRIPTION: This SMD ceramic

This SMD ceramic package with metal lid has been specially designed for miniature industrial, telecom and portable applications. This part is available for extended operating temperature range and is compliant with the AEC-Q200 quality standards for automotive applications. A special crystal manufacturing process is used to achieve improved electrical characteristics and a miniaturized blank size.

For pick-and-place equipment, the parts are available in 12 mm tape:

7" (178 mm) reel with 1'000 crystals

7" (178 mm) reel with 3'000 crystals

13" (330 mm) reel with 14'000 crystals

# ELECTRICAL CHARACTERISTICS AT 25°C:

Nominal Frequency	1)	FL	32.768	kHz
Load capacitance	2)	C <sub>L</sub>	7.0 / 9.0 / 12.5	pF
Fraguency tolorance	3)	ΔF/F	+/-20	ppm
Frequency tolerance	-,	ΔF/F	+/-100	ppm
Series resistance typ./max.		R <sub>S</sub>	50 / 70	kΩ
Motional capacitance typ.		C <sub>1</sub>	3.7	fF
Static capacitance typ.		C <sub>0</sub>	1.2	pF
Drive level max.		Р	1.0	μW
Insulation resistance min.		Ri	500	МΩ
Aging first year max.		ΔF/F	+/-3	ppm
Turnover temperature		T <sub>0</sub>	25 +/-5	°C
Frequency vs. temperature		ΔF/F <sub>0</sub>	$-0.035 \text{ ppm/}_{^{\circ}\text{C}^{2}} (\text{T - T}_{0})^{2} + /-10\%$	ppm

- 1) Other frequencies on request.
- 2) Other load capacitances on request.
- 3) Tighter and wider frequency tolerances on request.

#### STANDARD FREQUENCIES:

Frequency kHz
32.768
Other frequencies on request

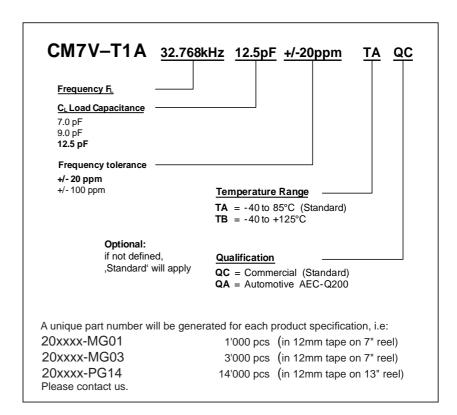
# ENVIRONMENTAL CHARACTERISTICS:

		Conditions	Max. Dev.
Storage temp. range		−55 to +125°C	
TA Operating temperature range		−40 to +85°C	
TB Extended oper. temp. range		–40 to +125°C	
Shock resistance	ΔF/F	5000 g, 0.3 ms, ½ sine	+/-5 ppm
Vibration resistance	ΔF/F	20 g / 10–2000 Hz	+/-5 ppm

## TERMINATIONS AND PROCESSING:

Туре	Termination	Processing
CM7V-T1A	For SMD mounting Au plated pads	Reflow soldering 260°C / 20 s max.

## PRODUCT DESCRIPTION AND ORDERING INFORMATION:



All specifications subject to change without notice.



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