



Tosoh SMD, Inc

Tosoh SMD, INC.
 3600 Gantz Road, Grove City, Ohio 43123-1895
 Phone: 614-875-7912 Fax: 614-875-0031 quality@tsmd.com

TOSOH

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CERTIFICATE OF COMPLIANCE AND ANALYSIS

Customer: DALLAS SEMICONDUCTOR
P.O. Number: 260328
Customer Part Number:
Customer Spec Number:

Ship To Number: 7311620-1
SMD Order Number: S100755
Line Item: 2
Release: 1

Material Composition: Titanium

Purity: 99.995%
Part Number: 02380-22-000-450

Lot Number: A00908
Target Number: 182
Process:
Number of Pieces: 1

MULTI-PIECE TARGET

Description: Ti TGT FOR CMII

ELEMENTAL ANALYSIS

<u>Element</u>	<u>Actual</u>	<u>Units</u>	<u>MOA*</u>	<u>Element</u>	<u>Actual</u>	<u>Units</u>	<u>MOA*</u>
Ti	BAL			Th	<0.0005	ppm	GD
Al	3.5	ppm	GD	U	<0.0005	ppm	GD
Ca	<0.2	ppm	GD	Zr	1.0	ppm	GD
Co	0.08	ppm	GD	K	<0.01	ppm	GD
Cr	0.8	ppm	GD	Li	<0.005	ppm	GD
Cu	0.35	ppm	GD	Na	<0.01	ppm	GD
Fe	7	ppm	GD	C	12	ppm	LE
Mg	<0.05	ppm	GD	H	<1.0	ppm	LE
Mn	0.0375	ppm	GD	N	<10	ppm	LE
Mo	<0.05	ppm	GD	O	195	ppm	LE
Ni	0.65	ppm	GD	S	<5	ppm	LE
Si	1.1	ppm	GD	REPORTED METALLICS	14.9		
Sn	<0.05	ppm	GD				

This is to certify that all work, materials, and/or processes furnished or performed are in accordance with our standard process controls and specifications

Mark J. Gore/President/CEO
 DATE: 09/14/2005

*GD = Glow Discharge Mass Spec AA = Atomic Absorption XF = X-Ray Fluorescence IC = Inductively Coupled Mass Spec LE = LECO Gas Analysis ES = Emmision Spec



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CERTIFICATE OF COMPLIANCE AND ANALYSIS

Customer: DALLAS SEMICONDUCTOR	Ship To Number: 7311620-1
P.O. Number: 252523	SMD Order Number: 05020063
Customer Part Number:	Line Item: 1
Customer Spec Number: CS00937REV0	
Material Composition: Copper	
Purity: 99.99%	Lot Number: 5V0614
Part Number: 31680-29-000-400	Target Number: 101
	Process:
	Number of Pieces: 1

Description: Cu 12.562"DIA X 1.607" MONOLITHIC, SPA 12

ELEMENTAL ANALYSIS

<u>Element</u>	<u>Actual</u>	<u>Units</u>	<u>MOA*</u>	<u>Element</u>	<u>Actual</u>	<u>Units</u>	<u>MOA*</u>
Cu	BAL			V	.007	ppm	GD
Al	.075	ppm	GD	Zn	<.05	ppm	GD
Ca	<.10	ppm	GD	Li	<.001	ppm	GD
Co	.006	ppm	GD	Na	<.002	ppm	GD
Cr	.013	ppm	GD	K	<.01	ppm	GD
Fe	.28	ppm	GD	C	<3.00	ppm	LE
Mg	1.42	ppm	GD	N	<1.00	ppm	LE
Mn	.004	ppm	GD	O	2.73	ppm	LE
Ni	.62	ppm	GD	Cl	.037	ppm	GD
Si	.092	ppm	GD	S	<4.00	ppm	LE
Ti	.001	ppm	GD	REPORTED	2.7	ppm	
				METALLICS			

This is to certify that all work, materials, and/or processes furnished or performed are in accordance with our standard process controls and specifications

Mark J. Gore/Chief Operating Officer

DATE: 03/29/2005

*GD = Glow Discharge Mass Spec AA = Atomic Absorption XF = X-Ray Fluorescence IC = Inductively Coupled Mass Spec LE = LECO Gas Analysis ES = Emmission Spec