



TOSOH

Tosoh SMD, Inc

Tosoh SMD, INC.
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CERTIFICATE OF COMPLIANCE AND ANALYSIS

Customer: CREE MICROWAVE, INC.
P.O. Number: 709912
Customer Part Number:
Customer Spec Number:

Ship To Number: 7500288-1
SMD Order Number: 04050064
Line Item: 1

Material Composition: Tungsten Silicide (WSi2.7)

Purity: 99.995%

Part Number: 0801E-74-F44-450

Lot Number: 4B0491
Target Number: 101
Process: HDP
Number of Pieces: 1

Description: WSi2.7 TGT FOR CMI W/RING & BASE

ELEMENTAL ANALYSIS

Element	Actual	Units	MOA*	Element	Actual	Units	MOA*
W	BAL			Th	.0004	ppm	GD
Si	29.70	wt%	AA	Ti	.83	ppm	GD
Al	2.04	ppm	GD	U	.0018	ppm	GD
As	.021	ppm	GD	V	2.50	ppm	GD
Ca	.57	ppm	GD	Zr	.55	ppm	GD
Co	.23	ppm	GD	Li	.003	ppm	GD
Cr	3.04	ppm	GD	Na	7.06	ppm	GD
Cu	.46	ppm	GD	K	.14	ppm	GD
Fe	11.30	ppm	GD	C	<10.00	ppm	LE
Mg	.039	ppm	GD	N	<10.00	ppm	LE
Mn	.68	ppm	GD	O	383.00	ppm	LE
Mo	.61	ppm	GD	Cl	.078	ppm	GD
Ni	1.26	ppm	GD	S	<10.00	ppm	LE
P	.48	ppm	GD	REPORTED METALLICS	31.8	ppm	

ACTUAL DENSITY=7.87 GM/CC
%THEORETICAL DENSITY=99.6%

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: 07/25/2004

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