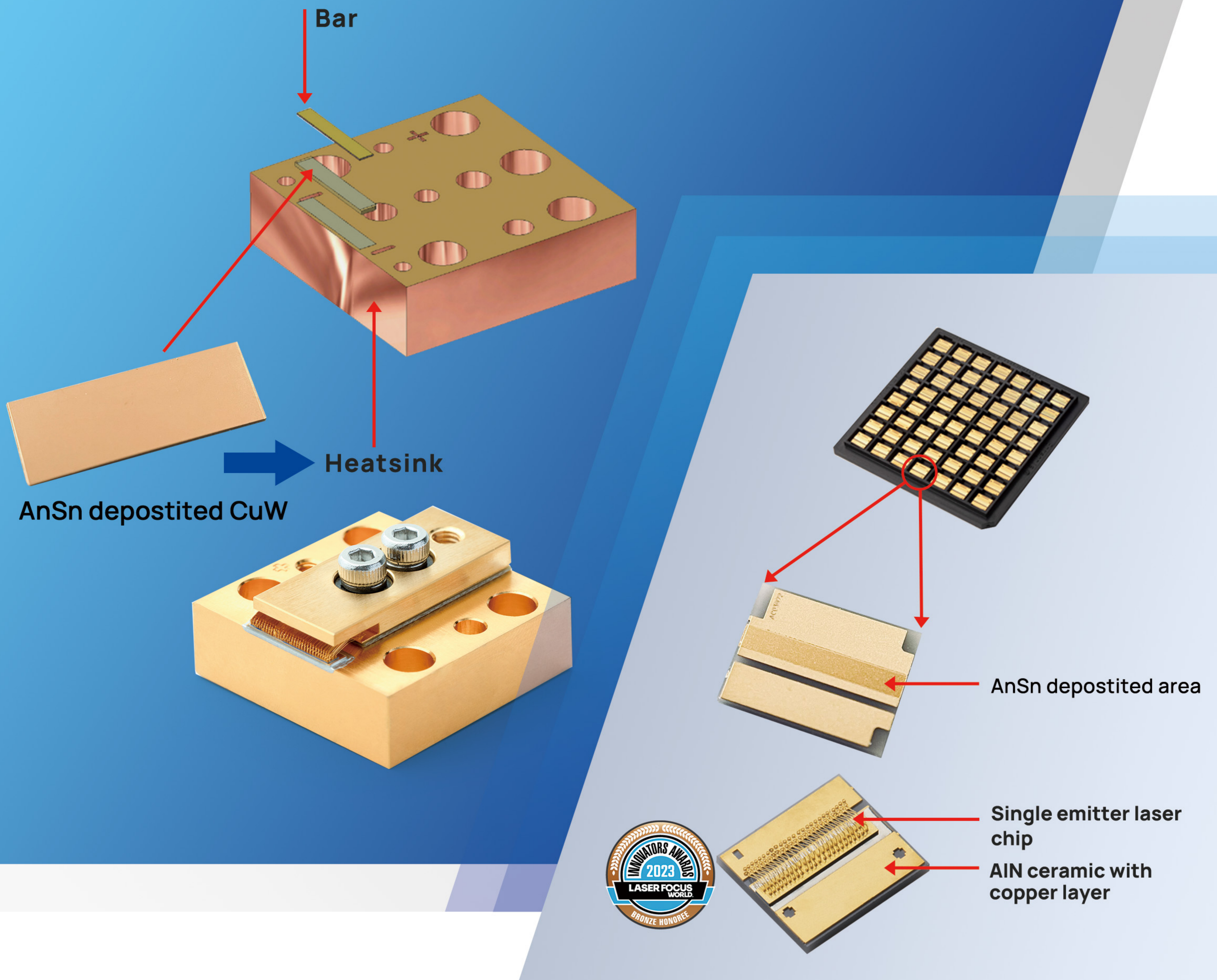


ADVANCED MATERIALS



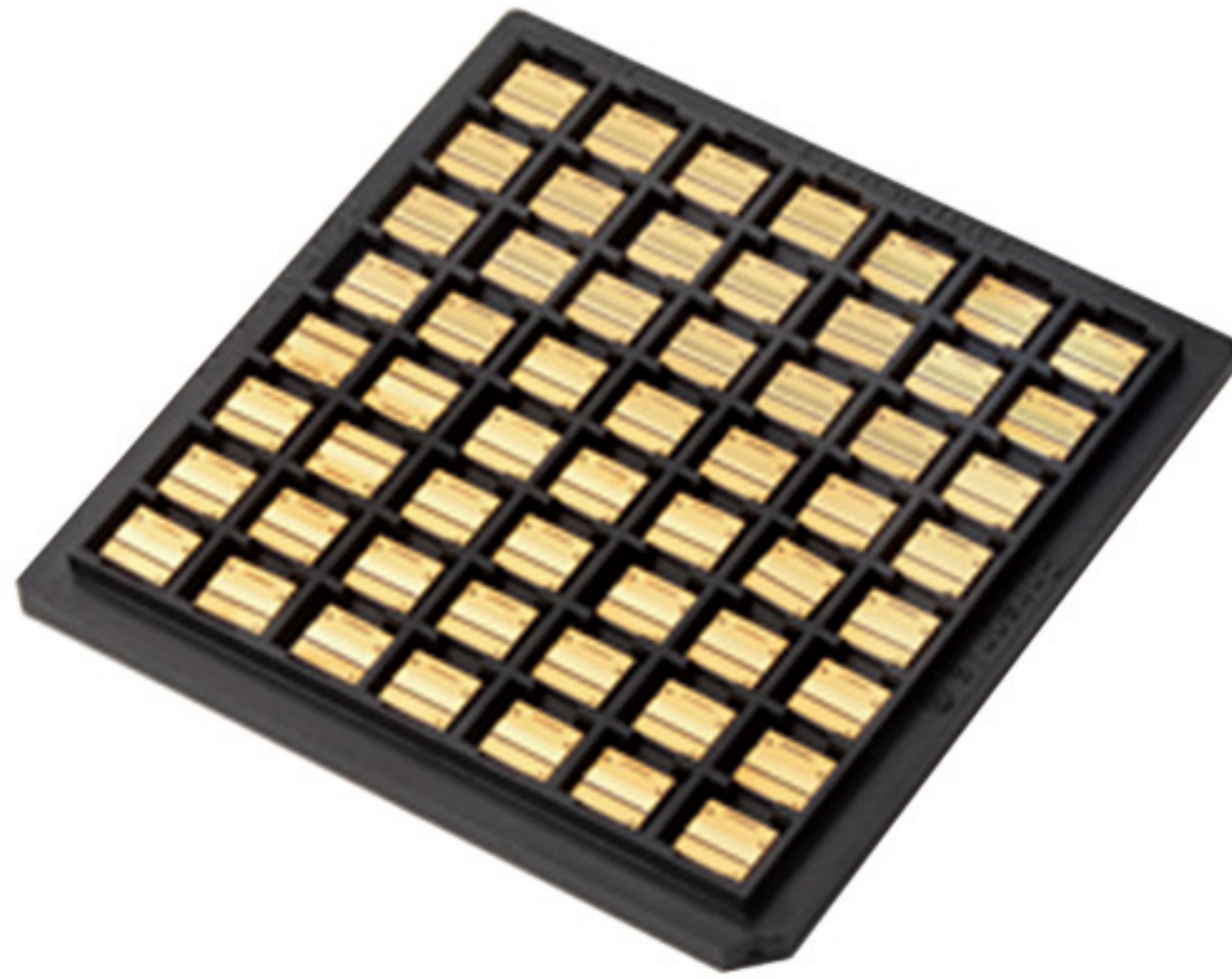
FEATURES

- Low thermal resistance
- High matching CTE
- High precision surface
- High precision wafer processing
- High thermal conductivity
- Low warpage

APPLICATIONS

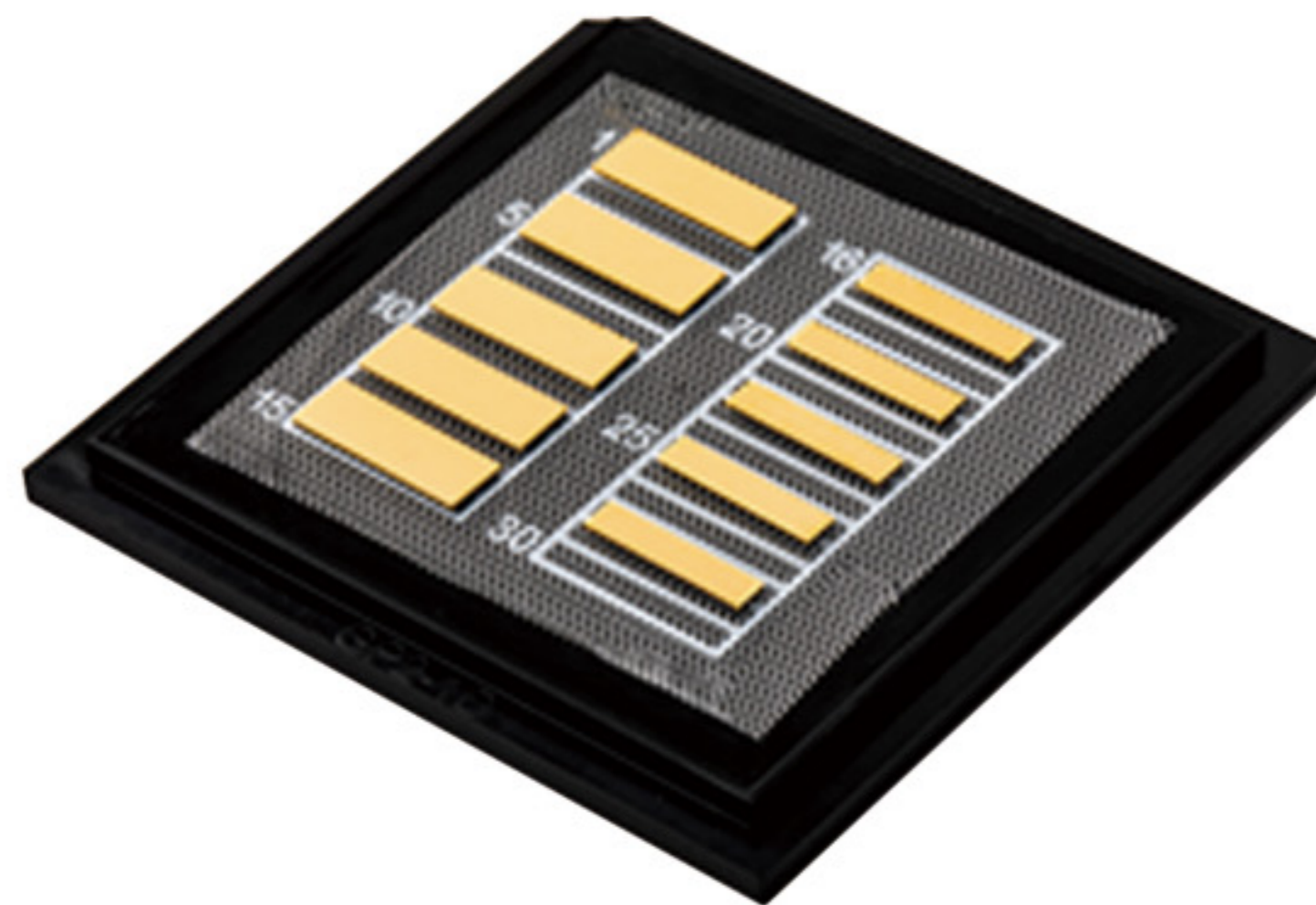
- laser diode chip bonding
- LED chip bonding
- Optical communication chip bonding
- IGBT component bonding
- Other metallization service

AuSn Pre-deposited Substrates



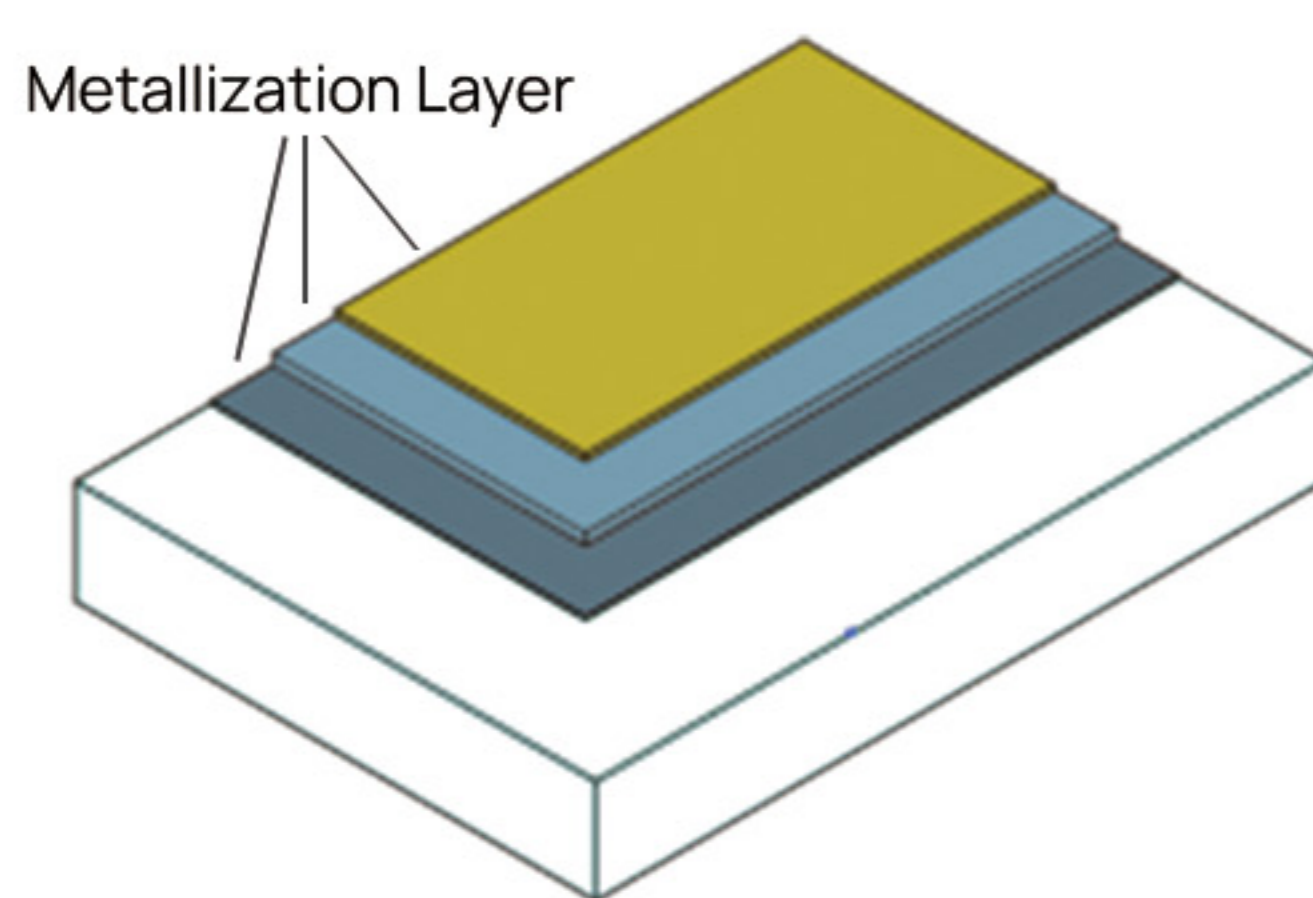
Specifications		FL-AMC-4045	FL-AMC-4048	FL-AMC-4557
Material	\	AlN		
Dimension	Length (mm)	4.50	4.80	5.75
	Width (mm)	4.00	4.05	4.50
	Thickness (mm)	0.50	0.50	0.50
	Thickness of Au (μm)	≥1.0	≥1.0	≥1.0
	Pullback (μm)	0~30	0~30	0~30
AuSn	Thickness (μm)	6.0+/-1.0	6.0+/-1.0	6.0+/-1.0
	Melting point (K)	280~320	280~320	280~320
Surface	Roughness (μm)	≤0.4	≤0.4	≤0.4
	Flatness (μm)	≤2.0	≤2.0	≤2.0
Thermal resistance	Rth (K/W)	≤2.1	≤2.1	≤2.1

AuSn Pre-deposited CuW Substrates



Specifications		AMM-10217506	AMM-10622503	AMM-11541003
Material	\	Cu (10%) W (90%)		
Dimension	Length (mm)	10.2	10.6	11.5
	Width (mm)	1.75	2.25	4.10
	Thickness (mm)	0.6	0.3	0.3
	Thickness of Au (μm)	≥0.25	≥0.25	≥0.25
AuSn	Thickness (μm)	6.0+/-1.0	6.0+/-1.0	6.0+/-1.0
	Melting point (°C)	280~320	280~320	280~320
	AuSn deposition side	double side	Single side	Single side
Surface	Roughness (μm)	≤0.4	≤0.4	≤0.4
	Warpage (μm)	≤10.0	≤10.0	≤10.0

Metallization Service



Metallization	Process	Thickness (um)	Roughness (um)	Flatness (um)
AuSn	PVD	1~7, +/-1	< 0.4	<2
Au	PVD	>0.15		
	Electroplating	>1		
Ni	Electroplating	>1		
Ti	PVD	>0.05		
Pt	PVD	>0.05		

COMPANY INTRODUCTION

Founded in 2007 and headquartered in Xi'an, China, Focuslight Technologies Inc. is a fast-growing public company (Shanghai: 688167) that specializes in developing and manufacturing high-power diode laser components and materials, laser optics, as well as photonics module and system solutions focusing on optical communication, automotive, pan-semiconductor, and medical and health applications. Focuslight has expanded its global footprint through strategic acquisitions including LIMO GmbH in 2017 and SUSS MicroOptics SA in 2024 (now as Focuslight Switzerland SA). With the acquisition of assets from ams OSRAM in 2024, Focuslight extends its business to be a global photonics foundry by providing global photonics industry process development and manufacturing service under the brand of Heptagon.