



XL-25W/XL-25D Series Ceramic Heat Spreader

Features

- Best for limited space
- Low thermal expansion coefficient
- Reliable insulation performance
- Low thermal expansion coefficient
- Non-toxic and durable for high temperature
- Durable for thermal shock

Application:

Adaptive to dramatic environmental changes

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Standard Sizes (mm):

01. TO-220 20x14x0.635	04. TO-247 22x17x0.635	07. TO-264 28x22x1.0
02. TO-220 20x14x1.0	05. TO-247 22x17x1.0	08. TO-3P 25x20x0.635
03. TO-220 12x18.5x1.0	06. TO-264 28x22x0.635	09. TO-3P 25x20x1.0

Properties

Properties	Unit	XL-25W	XL-25D	Test Method
Thermal Conductivity	W/m•K	25	190~210	-
Color	-	White	Dark Gray	-
Dielectric Breakdown Voltage	KV/mm	≥15	≥18.45	ASTM D149
Bulk Density	g/cm ³	≥3.8	3.32	CNS 619
Volume Resistivity	Ohm-m	10 ¹²	1.4×10 ¹³	-
Flexural Strength	kgf/cm ²	4078.8	3416	CNS 12701
Linear Thermal Expansion Coefficient	10 ⁻⁶	6.6~8	2.805	RT~300° C
Main Composition	-	Al ₂ O ₃	AlN	-

T-Global USA LLC

2880 Zanker Road, Suite 103, San Jose, CA 95134, USA

T +1(669)345-0002 E usa@tglobal-usa.com W www.tglobal-usa.com

Version20
20250211



NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.