

Global Power Electronic DCB & AMB Substrates Production, Demand and Key Producers, 2022-2028

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Abstracts

DBC (Direct Bonded Copper) substrates are composed of a ceramic insulator, Al₂O₃ or AlN onto which pure copper metal is attached by a high temperature eutectic melting process and thus tightly and firmly joined to the ceramic. This report studies the DBC ceramic substrate, including the AlN DBC Ceramic Substrate and Al₂O₃ DBC Ceramic Substrate.

Active Metal Brazing (AMB) is the latest developments in ceramic substrates and offers the ability to produce Heavy Copper with a AlN (Aluminium Nitride) or SiN (Silicon Nitride). The normal metallisation process is not used as AMB involves brazing pure copper on the ceramic in a high temperature vacuum brazing process. As well as offering a high reliability substrate with unique heat dissipation. The brazing technology also enables double sided copper weights of up to 800µm on thin ceramic substrates of just 0.25mm.

This report studies the global Power Electronic DCB & AMB Substrates production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Electronic DCB & AMB Substrates, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2021 as the base year. This report explores demand trends and competition, as well as details the characteristics of Power Electronic DCB & AMB Substrates that contribute to its increasing demand across many markets.

The global Power Electronic DCB & AMB Substrates market size is expected to reach \$ 823.3 million by 2028, rising at a market growth of 10.9% CAGR during the forecast

period (2022-2028).

Highlights and key features of the study

Global Power Electronic DCB & AMB Substrates total production and demand, 2017-2028, (Square Meters)

Global Power Electronic DCB & AMB Substrates total production value, 2017-2028, (USD Million)

Global Power Electronic DCB & AMB Substrates production by region & country, production, value, CAGR, 2017-2028, (USD Million) & (Square Meters)

Global Power Electronic DCB & AMB Substrates consumption by region & country, CAGR, 2017-2028 & (Square Meters)

U.S. VS China: Power Electronic DCB & AMB Substrates domestic production, consumption, key domestic manufacturers and share

Global Power Electronic DCB & AMB Substrates production by manufacturer, production, price, value and market share 2017-2022, (USD Million) & (Square Meters)

Global Power Electronic DCB & AMB Substrates production by Type, production, value, CAGR, 2017-2028, (USD Million) & (Square Meters)

Global Power Electronic DCB & AMB Substrates production by Application production, value, CAGR, 2017-2028, (USD Million) & (Square Meters)

This reports profiles key players in the global Power Electronic DCB & AMB Substrates market based on the following parameters – headquarters, production locations, products portfolio, Power Electronic DCB & AMB Substrates revenue, sales, average price and gross margin, recent developments.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Power Electronic DCB & AMB Substrates market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Square Meters) and average price (US\$/Square Meter) by manufacturer, by Type, and by Application. Data is given for the years 2017-2028 by year with 2021 as the base year, 2022 as the estimate year, and 2028 as the forecast year.

Global Power Electronic DCB & AMB Substrates Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Global Power Electronic DCB & AMB Substrates Market, Segmentation by Type

DBC Ceramic Substrates

AMB Ceramic Substrate

Global Power Electronic DCB & AMB Substrates Market, Segmentation by Application

Automotive Power Modules

PV and Wind Power

Industrial Drives

Rail Transport

Others

Companies Profiled:

Rogers/Curamik

KCC

Ferrotec (Shanghai Shenhe Thermo-Magnetics Electronics)

Heraeus Electronics

Kyocera

NGK Electronics Devices

Littelfuse IXYS

DENKA

DOWA METALTECH

Amogreentech

Remtec

Stellar Industries Corp

Tong Hsing (acquired HCS)

Nanjing Zhongjiang New Material Science & Technology

Zibo Linzi Yinhe High-Tech Development

BYD

Shengda Tech

Shenzhen Xinzhou Electronic Technology

Zhejiang TC Ceramic Electronic

Shengda Tech

Beijing Moshi Technology

Nantong Winspower

Wuxi Tianyang Electronics

Key Questions Answered

1. How big is the global Power Electronic DCB & AMB Substrates market?
2. What is the demand of the global Power Electronic DCB & AMB Substrates market?
3. What is the year over year growth of the global Power Electronic DCB & AMB Substrates market?
4. What is the production and production value of the global Power Electronic DCB & AMB Substrates market?
5. Who are the key producers in the global Power Electronic DCB & AMB Substrates market?
6. What are the growth factors driving the market demand?

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