⚡ ESD CONDUCTIVE SERIES

DP3075-E

300 × 200 × 75 mm Electrostatic Conductive Euro Container

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Standards: IEC 61340-5-1 / ANSI S20.20
Revision: Rev 01 / Active

PRODUCT DESCRIPTION & GENERAL PROPERTIES

The **DP3075-E** is an industrial-grade, ESD-safe Euro container manufactured from conductive carbon-loaded polypropylene (PP). It is engineered for the safe storage, handling, and inter-facility transit of electrostatic discharge-sensitive devices (ESDS), including assembled circuit boards (PCBAs), microchips, sub-assemblies, and sensor modules. Featuring a standardized 300 × 200 mm footprint, it seamlessly integrates with automated storage, shelving, and Euro-pallet layouts.

GEOMETRIC AND MECHANICAL SPECIFICATIONS

Parameter	Value / Rating	Remarks / Tolerance
External Dimensions (L × W × H)	**300 × 200 × 75 mm**	Standard Euro-modular footprint
Internal Dimensions (L × W × H)	**270 × 170 × 65 mm**	Usable interior working space
Tare Weight	~550 g	± 3% production tolerance
Internal Volume	~3.0 Liters	Optimized for compact modules & SMDs
Load Capacity (Individual)	10 kg	Dynamic & static handling rating
Stacking Load Capacity	100 kg	Rigid reinforced base edge stacking
Base and Sidewall Design	Solid Base / Solid Sidewalls	Sealed against dust & airborne debris

ELECTROSTATIC & MATERIAL SPECIFICATIONS

Electrical / Physical Parameter	Nominal Value	Test Method / Conditions
Raw Material Type	Conductive PP (Carbon Black Loaded)	High-impact copolymer compound
Surface Resistance (R_s)	**10^4 – 10^6 Ω** (Conductive)	IEC 61340-2-3 / ANSI ESD STM11.11
Volume Resistivity (R_v)	≤ 10^5 Ω · cm	Compliant with IEC 61340-5-1
Static Decay Time	< 0.05 seconds	5,000 V to 50 V discharge dissipation
Operating Temperature Range	-20 °C to +70 °C	Short exposure up to +85 °C (cleaning cycles)
Color & Surface Finish	Black (ESD Conductive Matrix)	Non-glare, matte, scratch-resistant

COMPLIANCE & DIRECTIVES

- **IEC 61340-5-1 & ANSI/ESD S20.20:** Fully compliant for use in ESD Protected Areas (EPA).
- **RoHS & REACH Compliant:** Free of restricted heavy metals and phthalates.
- **100% Recyclable:** Sustainable closed-loop industrial material lifecycle.

OPTIONAL ACCESSORIES & MODULARITY

- **2030LE Compatible ESD Lid:** Snap-on or hinged cover providing enclosed dust and particulate shielding.
- **ESD Label Holder Clips:** Molded channels for barcode, Kanban, and RFID tracking tags.
- **Conductive Dividers & Slotted Inserts:** Customizable interior slot dividers for vertical PCB placement.

Handling & Maintenance Advisory: Because conductive carbon particles are homogeneously distributed within the core plastic matrix, ESD protection remains permanent and does not degrade with surface abrasion. For maintenance, clean using isopropyl alcohol (IPA) or certified ESD-safe detergents; avoid high-solvent aggressive chemicals.