

SDG Group Product Carbon Footprint Declaration

Product Series	Carbon Footprint (KgCO2e/pcs)	Stage	Carbon Emission (KgCO2e)	Percentage (%)	Reference Model	Update Date
IRM-45ST	3.93	Raw Material Manufacturing	3.82	97.20	IRM-45-5ST	2024/2/11
		Raw Material Transportation	<0.01	0.00		
		Power Supply Manufacturing	0.11	2.80		

Raw Material Manufacturing Stage Information

Note: The carbon footprint calculation for raw material manufacturing is based on the global SimaPro database coefficients. In the future, we plan to integrate carbon footprint assessments of the supply chain along with training and exchanges, gradually establishing the MWPro database coefficients.

Raw Material Category	Raw Material Manufacturing Emission(KgCO2e)	Percentage
Subtotal	3.8249	100.00%
1*: CASE Category	0.2024	5.29%
1A: Resistance Category	0.0465	1.22%
1B: Capacitance Category	0.3312	8.66%
1C: Semiconductor Category	1.8209	47.61%
1D: Inductor Category	0.3586	9.37%
1E: Electronic Components Category	0.0517	1.35%
1F: Wire, Connector, AC Cable	0.0001	<0.01%
1G: Metal Category	0.0121	<0.01%
1H: Insulation, Plastic Category	0.0069	<0.01%
1J: Packaging	0.0307	0.80%
1M: Manufacturing Consumables	0.5823	15.22%
1Z: PCB Printed Circuit Board	0.2098	5.49%
2A: SMD Resistance Category	<0.0001	<0.01%
2B: SMD Capacitance Category	0.0213	0.56%
2C: SMD Semiconductor Category	0.1351	3.53%
4A: Screws, Washers, Copper Columns	0.0065	<0.01%
4B: Stickers	<0.0001	<0.01%
5A: Outer Box	0.0088	<0.01%

SDG Group Carbon Neutrality Team