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CRAM

Noise Suppression Sheets

Relative Permeability	45~220
Frequency Range	DC~10GHz
Operating Temperature	-40℃~+120℃

Applications

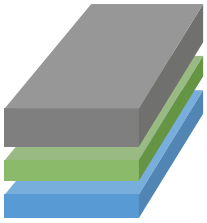
Consumer Electronics
Communication Equipment
Automotive Electronics
Medical Devices
Industrial Control

Better Solution for Sustainable High End Manufacturing

CRAM

Noise Suppression Sheets

Designed for EMI suppression over a broad frequency range up to 10 GHz, High flexibility, Ultra-thin thickness, High long-term reliability. Suitable for operation from -40℃ to +120℃



→ Magnetic layer
→ Double-sided adhesive tape
→ Release liner

Standard Size

Series	Width *Length (mm)	Thickness Range (mm)	Total Thickness (mm)typ.
CRAM045	200*300	0.1~1	0.13~1.03
CRAM120	200*300	0.05~0.5	0.08~0.53
CRAM180	200*300	0.05~0.3	0.08~0.53
CRAM220	200*300	0.03~0.2	0.06~0.23

Introduction

Efficient EMI Suppression: Significantly reduces EMI/RFI interference, unwanted noise, and excessive radiated emissions in electronic devices, communication base stations, and medical instruments.
High Surface Resistivity for Dense PCB Layouts: Ensures stable operation in dense circuit, multilayer PCBs, and high-frequency circuits without causing signal crosstalk.
Robust Adhesion for Long-term Reliability:Utilizes high-tack non-conductive double-sided adhesive for secure bonding, with resistance to vibration and temperature cycling, making it suitable for harsh operating conditions.
Environmental Compliance & Long-Term Durability: RoHS and Halogen-Free compliant, with resistance to powdering and delamination during long-term use.

Composite Material Design: Constructed from iron-based soft magnetic alloy powder combined with eco-friendly polymer substrates, offering high permeability with flexibility for cutting, bending, and die-cut forming.
Ultra-Thin Profile for Confined Spaces: Available in typical thicknesses from 0.03 mm to 1.0 mm, suitable for compact structures such as smartphones, wearable devices, automotive ECUs, and 5G modules.
Single-Sided Adhesive Backing: Pre-laminated with a non-conductive adhesive layer on one side for easy installation, eliminating the need for additional glue and improving assembly efficiency and consistency.

Electrical Parameters

Series	Relative Permeability @1MHz	Frequency Range	Surface Resistivity (Ω/sq.)typ.	Operating Temperature
CRAM045	45	DC~10GHz	⩾1M	-40℃~+85℃
CRAM120	120	DC~10GHz	⩾1M	-40℃~+120℃
CRAM180	180	DC~6GHz	⩾1M	-40℃~+120℃
CRAM220	220	DC~6GHz	⩾100K	-40℃~+120℃

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Part Number Information

Example: CRAM220020D300×200 (CRAM 220 020 Double-sided adhesive ±250ppm/℃ 300×200)

C	R	A	M	2	2	0	0	2	0	D	3	0	0	×	2	0	0

Series	Reltive Permeability	Material Thickness	Adhesive Type	Size
CRAM	045=045 120=120 180=180 220=220	003=0.03mm 005=0.05mm 010=0.1mm 015=0.15mm 020=0.2mm 030=0.3mm 050=0.5mm 100=1.0mm	D=Double-sided adhesive S=Single-sided adhesive F=Adhesive-free	300×200=300mm×200mm

Should you require other dimensions, thicknesses, relative permeability or other specifications, please email us at resi@cbeureka.com.

Revision

Version	Revised Content	Date	Approver
V0	Initial Issue	2026.6.9	ZQF

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