

Specification

ITEM : EM Wave Absorber

Part no. : NWA Series

NWA系列是针对当前数字产品中日益严重的电磁干扰所研发的EMC材料，原理是将电子设备中的干扰微波转化成热能损耗掉。

NWA主要的频率范围是从100MHZ到6GHZ。对于不同的频率范围及应用，我们采用不同的磁性材料，并且可以根据频率范围，天线尺寸等，设计特殊规格的材料以满足客户。

Nanonix has various functional filler materials and dispersion technology to cope with wide range of frequencies.

The main frequency range is from 100MHz to 6GHz.
Nanonix is ready to meet diverse customers' specifications such as frequency range, attenuation, size, and so on.

NWA (Nanonix Wave Absorber) Series

Part NO.	NWA
Properties	NWA-010/025-S
材质 Material	Elastomer + Microwave Absorbing Material
厚度 Thickness (mm)	0.10/0.25
标准尺寸 Standard size (mm)	210 × 300
厚度范围 Thickness range (mm)	0.10mm -- 2.0mm
适用温度 Operating Temp. (℃)	-30 ~ 150
磁导率 Permeability	20, 30, 50
阻抗 Electrical Resistance (Ω / □)	Min. 1.0 × 10 ⁶
频率范围 Frequency Range	100 MHz ~ 6 GHz Microwave absorbing 125KHz, 13.56MHz RF-ID application
硬度 Hardness (Shore A)	85 ± 5
密度 Density (g/cm ³)	3.8 ± 0.5
抗张强度 Tensile strength (kgf/cm ²)	25

编号规则 How to order

NWA — 025 — S — 210-300 — SD
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 Series description Thickness(0.25mm) material NO. standard size(210×300mm) Tape Type

NWA-S Series

Properties	Unit	Test method	NAA-XXX-S1	
标准厚度 Standard thickness	mm	KSM ISO 2589	0.1-0.4	0.5-1.0
标准尺寸 Standard size	mm	-	A4(210X297)	
工作温度 Operating Temp.	℃	-	-25 ~ 85	-25 ~ 100
密度 Density	(g/cm ³)	-	3.4	4.5
阻抗 Electrical Resistance	(Ω / □)	JIS K 6911	1.0×10^3	1.0×10^5
导热系数 Thermal Conductivity	W/m_K	ASTM D 5470	0.7	1.0
抗长强度 Tensile strength	Kg/cm2	ASTM D 638	>40	>100
延长率 Elongation	%	ASTM D 638	>400	>60
防火等级 Approved standard	-	-	UL-94-V0	

衰减曲线图 S-Parameter 测量法

(Network Analyzer, HP 8753D)

