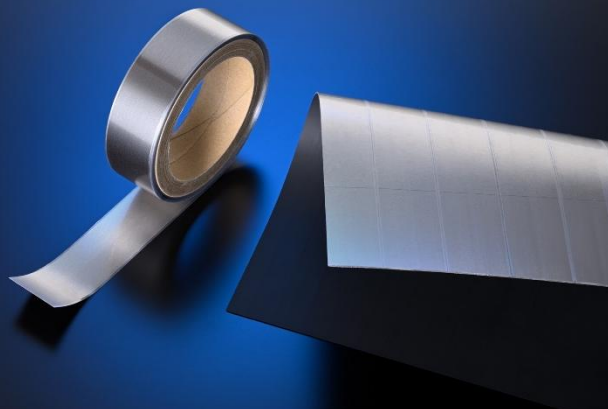


无线充电用积层片 MS-HiQ系列

Shield Yoke Sheet MS-HiQ series for Wireless Chargers

积层片使用纳米结晶软磁材料*同时实现低损耗和高导磁率

A shield yoke sheet that achieves both low loss and high permeability using the nanocrystalline soft magnetic material FINEMET®.



电池

概要

通过控制磁导率改善现有产品的Q值 开始提供MS-HiQ系列样品

Started supplying samples of the MS-HiQ series, which improved the Q value of conventional products by controlling magnetic permeability.

用途

薄型轻量化积层片
Thin and light shield yoke sheet

特点

通过控制磁导率显著改善现有MS系列产品的Q值

Magnetic permeability control significantly improves the Q value of the conventional MS series

通过优越的柔性和耐冲击性实现较高的机械可靠性

It has excellent flexibility and impact resistance, and achieves high mechanical reliability.

优越的加工性能（切断、冲切加工等）

Excellent workability (cutting, punching, etc.)

利用高饱和磁束密度（1.23T）的特性、使积层片的薄型化和轻量化成为可能

对比Mn-Zn铁氧体（本公司ML29D: 0.54T）可实现50%薄型化、35%轻量化

With the high saturation magnetic flux density (1.23T), it is possible to reduce the thickness and weight of the sheet. (50% thinner and 35% lighter than Mn-Zn ferrite (our company's ML29D: 0.54T))

参数（参考值）

线圈特性

· 和现有MS系列对比，Q值提升25%。为充电效率提升、减少热量产生作出贡献。

项目	片材层数	磁导率 $\mu r'$	片材厚度 (mm)	Ls (uH)	Rs (m Ω)	Q值
仅线圈	0	-	-	1.0	71.0	7.7
MS-HiQ系列	5	1100	0.22	5.4	55.5	52.0
	15		0.45	5.6	48.0	62.6
	25		0.68	5.7	46.5	65.5
现有MS系列	15	13000	0.45	5.7	61.8	49.7

*通过如下所示的测定方式进行评估

*测定条件 f=85kHz、V=0.03V

纳米晶材料*积层片使用例

