

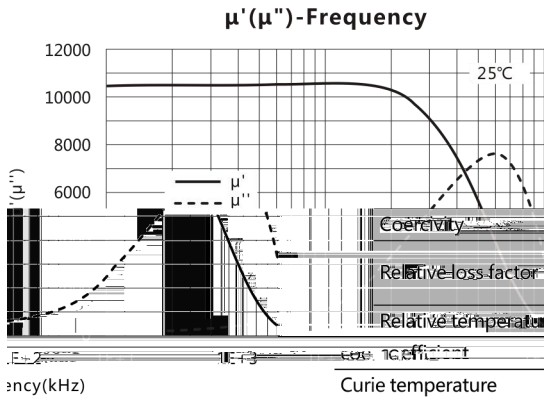
# 材料 Ma a TSR10

## 特点 F a

高磁导率 约  $\mu_i$   $10^4$  左右

低比损耗因子  $\tan\delta/\mu_i$   $< 20 \times 10^{-4}$

更优的频率特性  $\mu_i$  在  $10^2 \sim 10^4$  kHz 范围内



Initial permeability	$\mu_i$	25°C 10kHz	10000±30%
		25°C 200kHz	9500
Saturation magnetic flux density	$B_s$ (mT)	25°C	410
			1194A/m
Remanent	$B_r$ (mT)	25°C	100

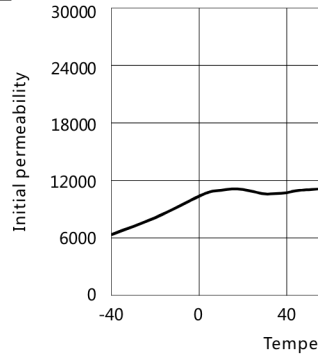
### Temperature



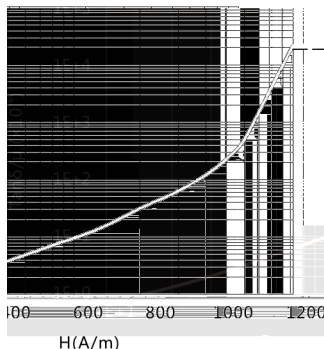
Coercivity	$H_c$ (A/m)	25°C	5
Relative loss factor	$\tan\delta/\mu_i$	25°C	$< 20 \times 10^{-4}$
		100kHz	
Relative temperature coefficient	$\alpha_{\mu_i}$	20°C ~ 60°C	-0.3 ~ 1.0
Curie temperature	$T_c$ (°C)		$\geq 130$
Electrical resistivity	$\rho$ ( $\Omega$ -m)		0.2
Density	$d$ (kg/m <sup>3</sup> )		$4.95 \times 10^3$

Test core : Toroid(mm)  
 OD : 25  
 ID : 15  
 H : 7.5

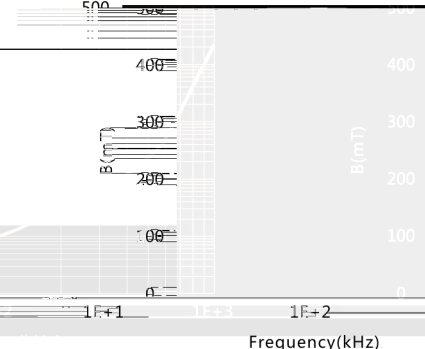
### $\mu_i$ -Temp



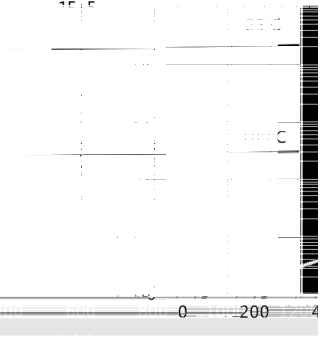
### B-H



### B-H



### $\tan\delta/\mu_i$



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