

Company	000 "Ferro"
Item No:	E42/21/15(EE42/15)

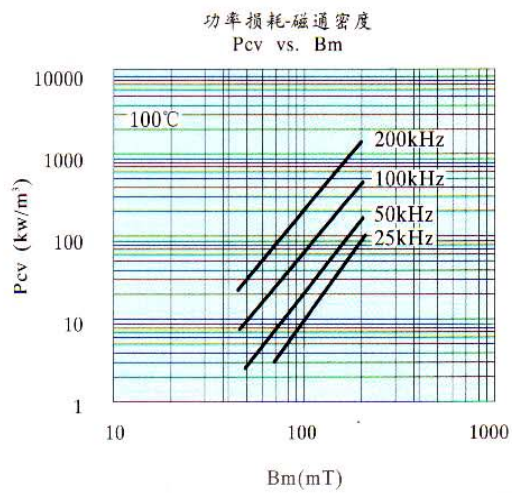
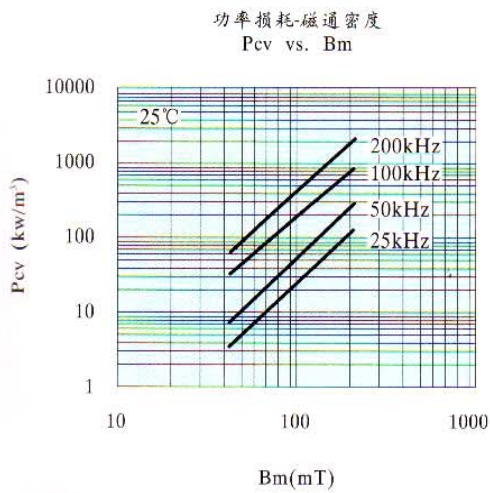
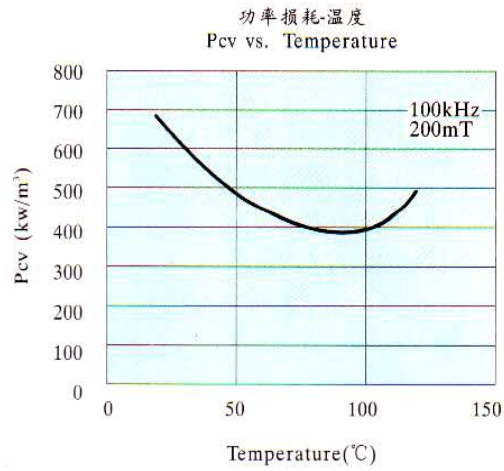
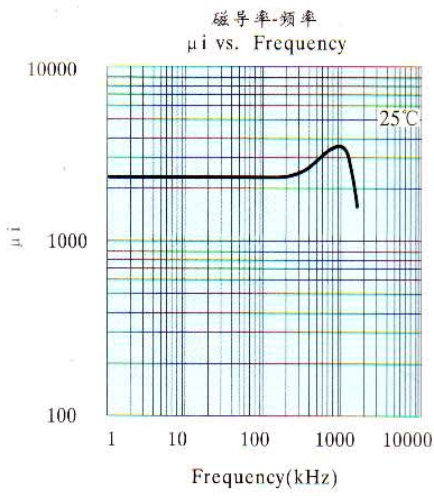
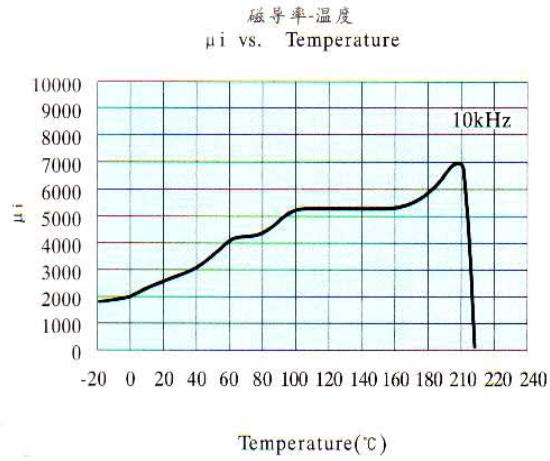
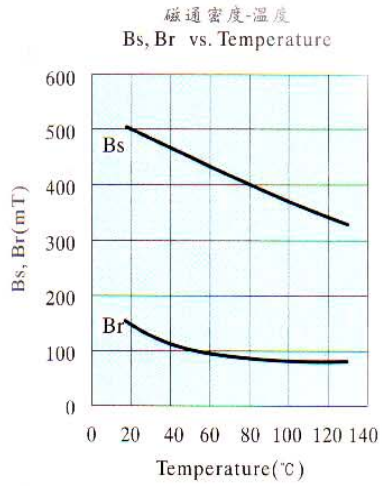
Table of Mn-Zn MATERIALS CHARACTERISTICS

	Unit	Measuring Conditions		PC40
Initial permeability $\mu_i$	—	1kHz	23±3°C	2300±25%
Core loss $P_v$	$mW/cm^3$	100kHz 200mT	25°C	600
			60°C	450
			100°C	410
			120°C	480
Saturation magnetic flux $B_s$	mT	1194A/m	25°C	510
			60°C	450
			100°C	390
			120°C	350
Retentivity	mT		25°C	95
			60°C	65
			100°C	55
			120°C	50
Coercivity	A/m		25°C	14.3
			60°C	10.3
			100°C	8.8
			120°C	8
Cuire Temperature $T_c$	°C			>215
Resistivity P	$\Omega \cdot m$			6.5
Apparent density d	$g/cm^3$			4.8

1mt=10guass, 1A/m=0.012566Oersted

CURVES OF Mn-Zn MATERIALS CHARACTERISTICS

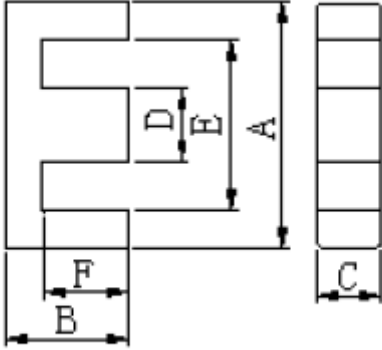
PC40



# SPECIFICATION

1. MATERIAL: PC40

2. DIMENSION (mm)



A	42.0+1.0/-0.7
B	15.2 ± 0.4
C	20.0 + 0.2/-0.4
D	20.0 + 0.2/-0.4
E	29.5min
F	15.4 ± 0.3

3. CORE SET PARAMETER

Core constant	$C_1$	0.44	$\text{mm}^{-1}$
Effective core length	$L_e$	98.19	mm
Effective cross section	$A_e$	224.91	$\text{mm}^2$
Effective volume	$V_e$	22084	$\text{mm}^3$
weight	$W_g$	88g/set	

4. ELECTRICAL CHARACTERISTICS

4.1 INSUCTANCE

AL-VALUE 4500 (nH/N\*N)±25%

Test Conditions 1KHz 0.3V  $\varnothing$  0.35\*100Ts 25±2°C

4.2 POWER LOSS:  $P \leq 135\text{mw/g}$  3Ts 100kHz, 200m T100 ± 3

4.3 Test Condition: 1kHz 200mT 3Ts (0.35mm) U=91.94V

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### 4.3 TEST INSTRUMENTATION

For INSUCTANCE: YD2817

For POWER consumption: WL3866B

## 5. Maximum chip off

5.1 The depth of crack in the ground surface should be no more than 1/4,length is no more than 1/4,length of lengthen line in the non-ground surface, the depth should be no more than 1/3,length is no more than 1/3 length of lengthen line.

5.2 The total chip square should be no more than 3.0 mm<sup>2</sup>, quantity should be no more than 3.In the non-ground surface,the total chip square should be no more than 6.0 mm<sup>2</sup>, and quantity should be no more than 4

## 6. Inspection Method

According to GB2828.1-2003,one time normal random sampling,Inspect level II ,

AQL should be as follows:

	AQL	Inspect Item
A	0.65	Electromagnetic Property
B	1.0	Outside Size
C	1.5	Outside Quality

## 7. Packing

Formed plastic box is used to inside packing, paper box is used to outside packing, each package's right or left side shows product model and ROHS certificate

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