ACME Electronics Corporation
越峯電子材料股份有限公司

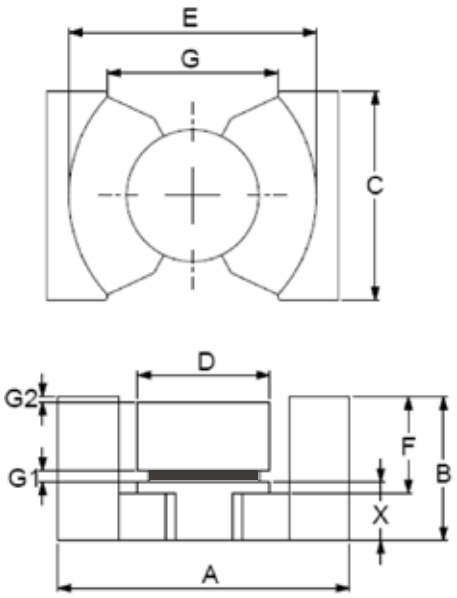
Multi-gap Ferrite Core

P61 PQH30/30

2026/Jul. Version 1.0

Multi-gap Ferrite Core

PQH30/30



Core dimensions:

A	30.00	± 0.50
B	15.00	± 0.15
C	23.00	± 0.50
D	13.30	± 0.30
E	25.50	± 0.50
F	11.70	± 0.15
G	20.70	± 0.50
X	3.60	± 0.20

Application Fields:

1. OBC
2. DC/DC Converter
3. Solar Inverter
4. UPS
5. Industrial SMPS
6. Telecom/Server SMPS

Characteristics:

$\sum L/A$	L_e	A_e	A_{min}	V_e	W_t/set
0.548 mm^{-1}	70.6 mm	128.8 mm^2	96.8 mm^2	9094mm^3	45 g

Material	Part no.	G1(mm)	G2 (mm)	Inductance Factor A_L(nH/N^2)
P61	P61PQH30/30G156	0.40	0.20	156 ±10%
	P61PQH30/30G112	0.60	0.30	112 ±10%
	P61PQH30/30G74	1.00	0.50	74 ±10%

Custom A_L values, air gaps, and materials are available upon request.

High Frequency/Low Loss Material

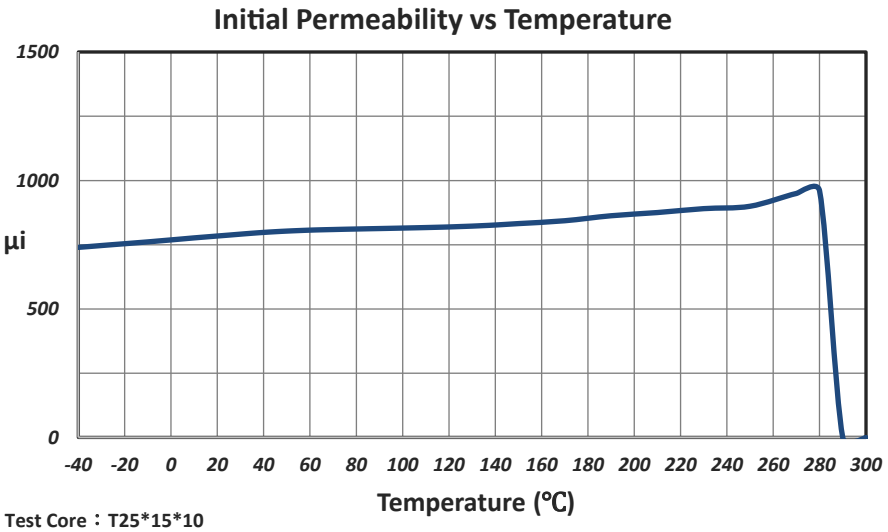
P61

Material properties:

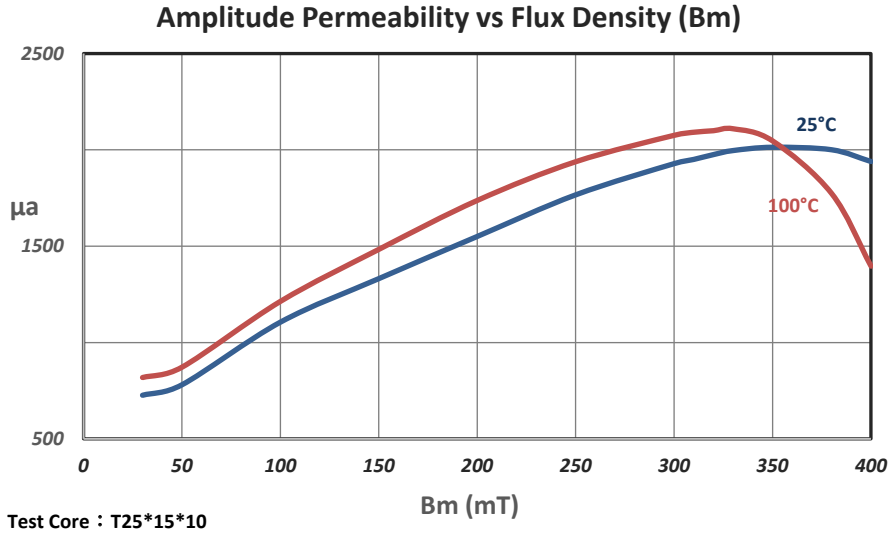
	Symbol	Unit	Measuring Conditions			P61
			Freq.	Flux den.	Temp.	
Initial Permeability	μi		≤10kHz	0.25mT	25°C	**900** ±25%
Amplitude Permeability	μa		25kHz	200mT	25°C	**> 1700**
					100°C	**> 1800**
Power Loss	Pv	kW/m^3	1MHz	50mT	25°C	**250**
					100°C	**110**
			3MHz	10mT	25°C	**50**
					100°C	**50**
			3MHz	30mT	25°C	**450**
					100°C	**370**
			5MHz	9mT	25°C	**150**
					100°C	**170**
Saturation Flux Density	Bs	mT	10kHz	1200A/m	25°C	**515**
					100°C	**430**
Remanence	Br	mT	10kHz	1200A/m	25°C	**200**
					100°C	**135**
Coercivity	Hc	A/m	10kHz	1200A/m	25°C	**50**
					100°C	**40**
Hysteresis Material Constant	η_B	$10^{-6}/mT$	10kHz	1.5-3.0mT	25°C	**< 1**
Disaccommodation Factor	D_F	10^{-6}	10kHz	< 0.25mT	25°C	**< 2**
Curie Temperature	Tc	°C				**≥ 280**
Resistivity	ρ	Ωm				**10.00**
Density	d	g/cm^3				**4.80**

High Frequency/Low Loss Material

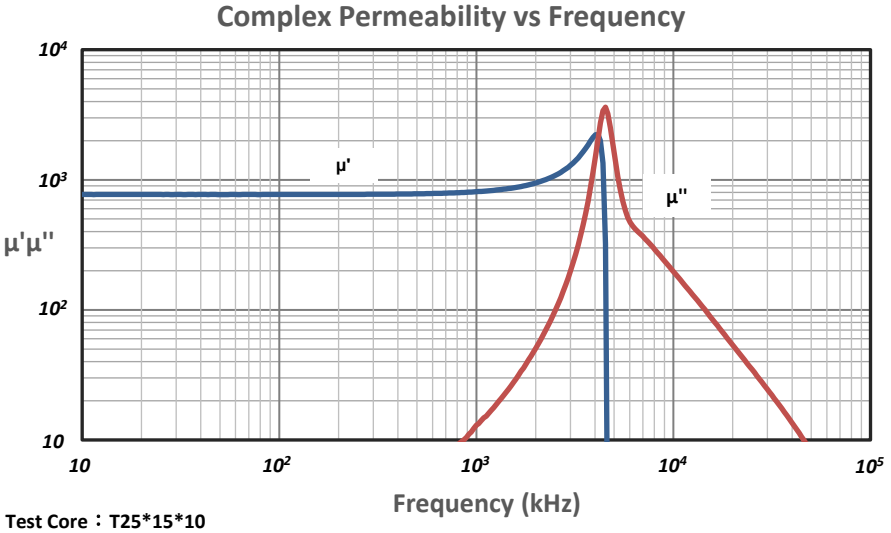
P61



Test Core：T25*15*10



Test Core：T25*15*10

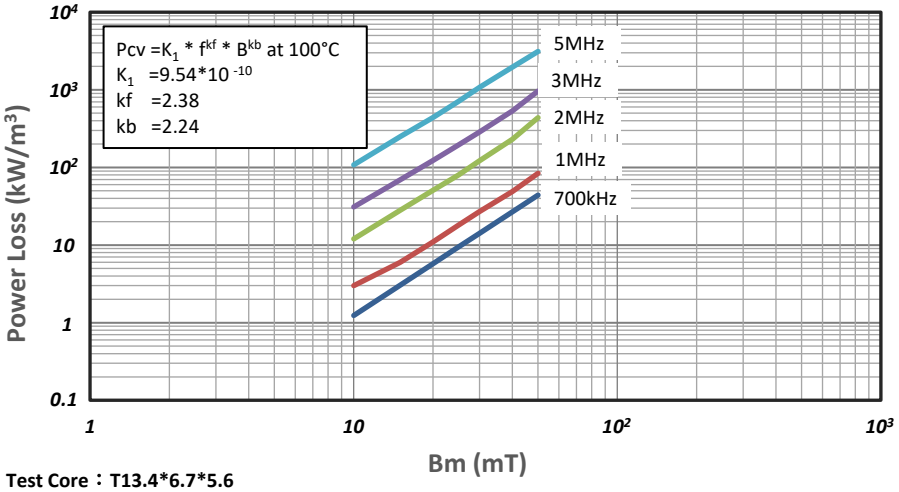


Test Core：T25*15*10

High Frequency/Low Loss Material

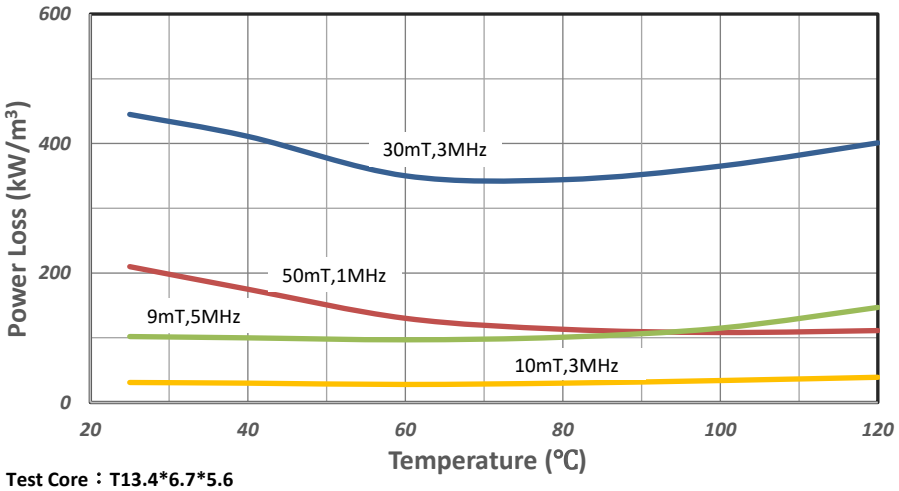
P61

Power Loss vs Temperature/Flux Density/Frequency



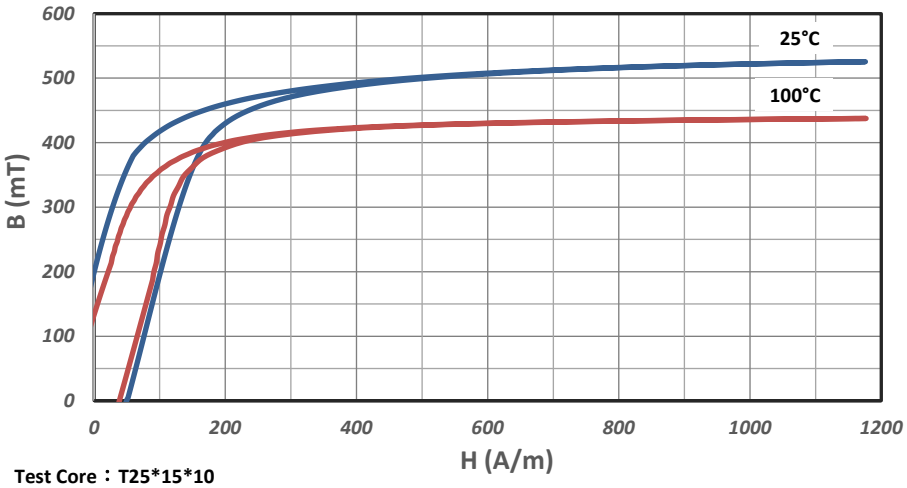
Test Core：T13.4*6.7*5.6

Power Loss vs Temperature



Test Core：T13.4*6.7*5.6

Saturation Flux Density vs Magnetic Field



Test Core：T25*15*10