



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

Multi-gap Ferrite Core

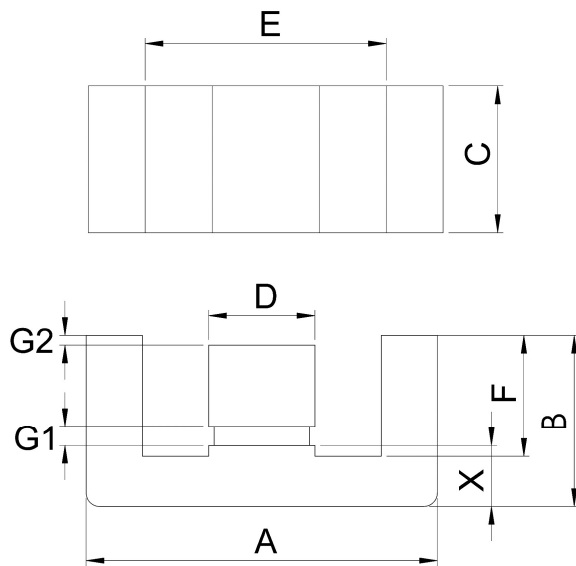
P61 EEH55/55

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Multi-gap Ferrite Core

EEH55/55



Core dimensions:

A	55.15 ± 1.05
B	27.50 ± 0.30
C	20.75 ± 0.30
D	16.95 ± 0.25
E	38.00 min
F	18.90 ± 0.30
X	8.90 ± 0.30

Application Fields:

1 High-Power PFC

2 AI Server PSU

3 Telecom Power

4 Industrial Power

5 Solar /ESS

6 EV Charging

Characteristics:

$\Sigma L/A$	L_e	A_e	A_{min}	V_e	Wt/set
0.349 mm ⁻¹	123.5 mm	354.2 mm ²	351.1 mm ²	43760 mm ³	219 g

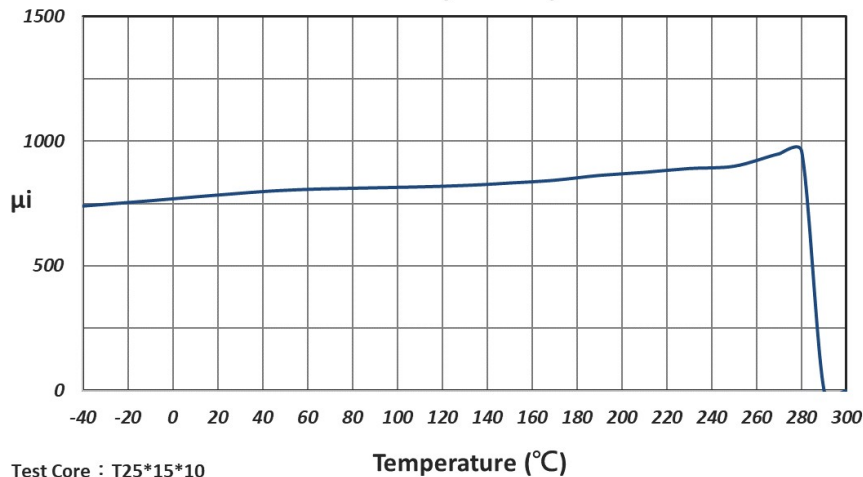
Material	Part no.	G1 (mm)	G2 (mm)	Inductance Factor A_L (nH/N ²)
P61	P61EEH55/55G260	0.40	0.20	260 ±10%
	P61EEH55/55G171	0.60	0.30	171 ±10%
	P61EEH55/55G124	1.00	0.50	124 ±10%

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

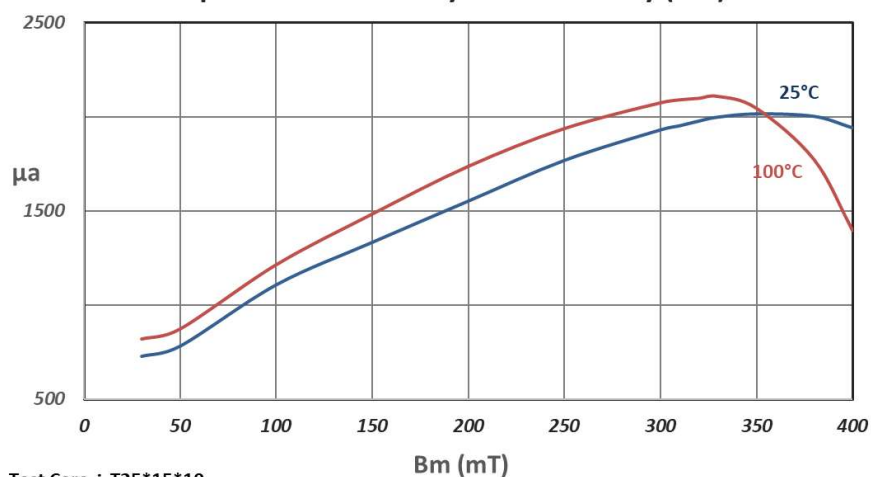
Material properties:

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

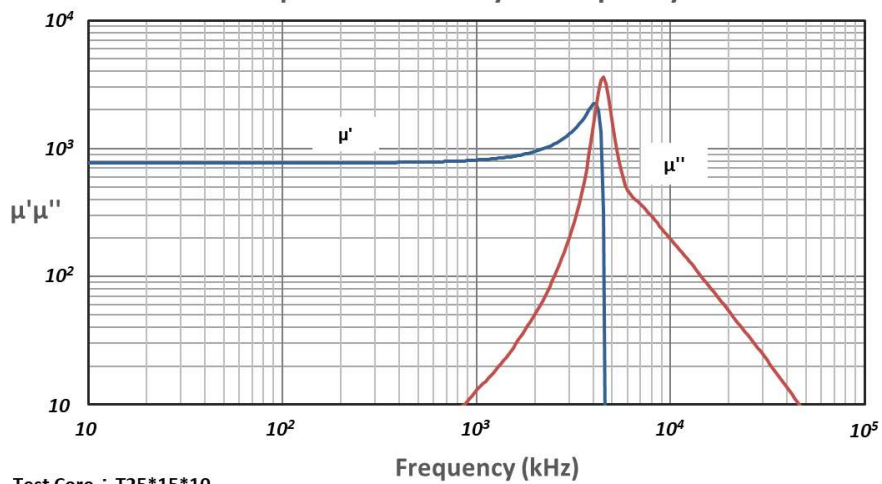
Initial Permeability vs Temperature



Amplitude Permeability vs Flux Density (B_m)



Complex Permeability vs Frequency



High Frequency Low Loss Material

P61

