



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

Multi-gap Ferrite Core

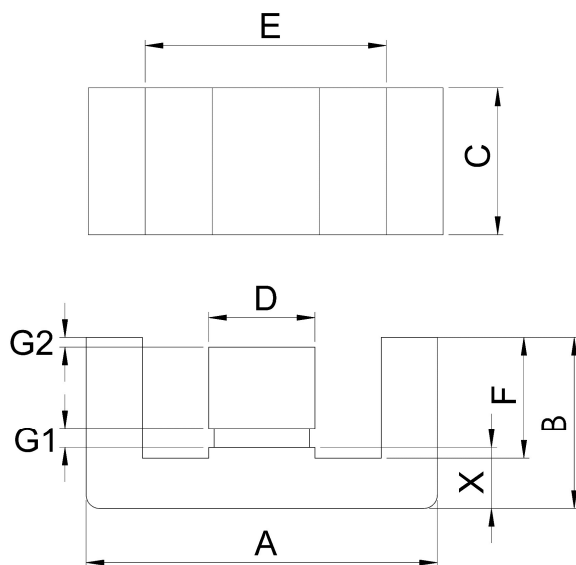
P61 EEH42/42

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Multi-gap Ferrite Core

EEH42/42



Core dimensions:

A	42.15 ± 0.70
B	21.00 ± 0.20
C	19.70 ± 0.40
D	11.95 ± 0.25
E	29.00 min
F	15.15 ± 0.20
X	6.15 ± 0.20

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
0.414 mm ⁻¹	97.2 mm	234.9 mm ²	230.4 mm ²	22858 mm ³	114 g

Material	Part no.	G1 (mm)	G2 (mm)	Inductance Factor A_L (nH/N ²)
P61	P61EEH42/42G181	0.40	0.20	181 ±10%
	P61EEH42/42G119	0.60	0.30	119 ±10%
	P61EEH42/42G86	1.00	0.50	86 ±10%

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

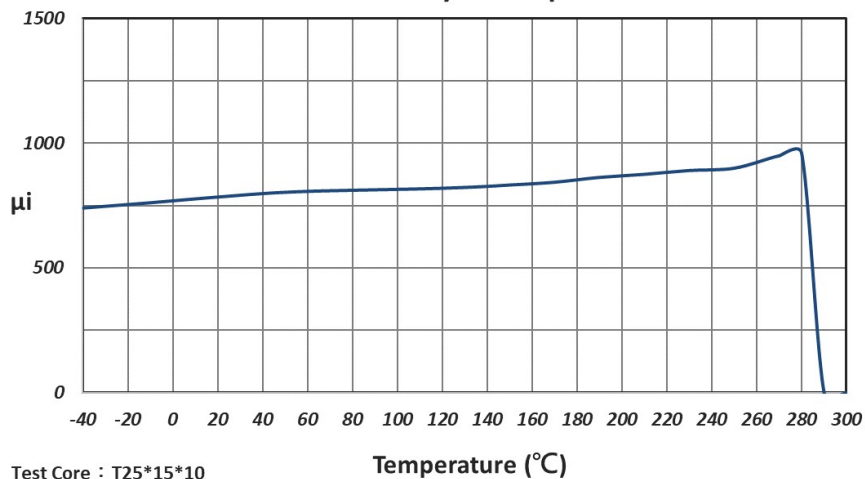
High Frequency Low Loss Material

P61

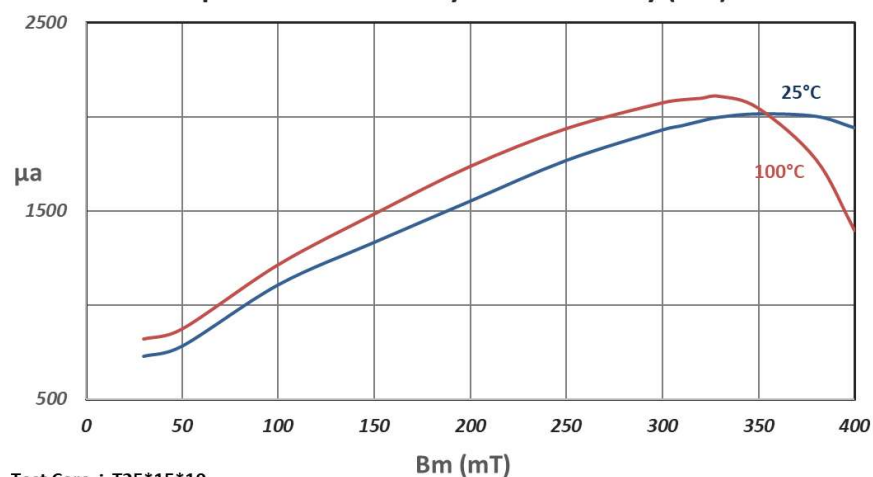
Material properties:

	Symbol	Unit	Measuring Conditions			P61
			Freq.	Flux den.	Temp.	
Initial Permeability	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

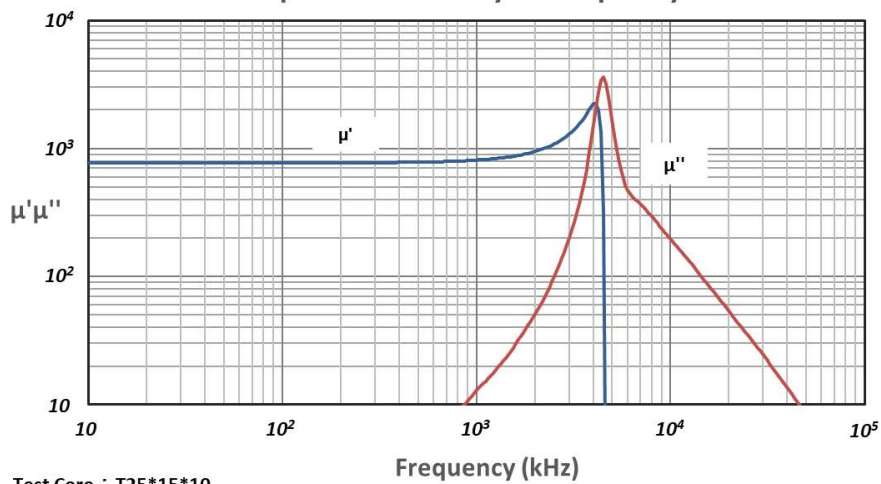
Initial Permeability vs Temperature



Amplitude Permeability vs Flux Density (B_m)



Complex Permeability vs Frequency



High Frequency Low Loss Material

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