

Multi-gap Ferrite Core

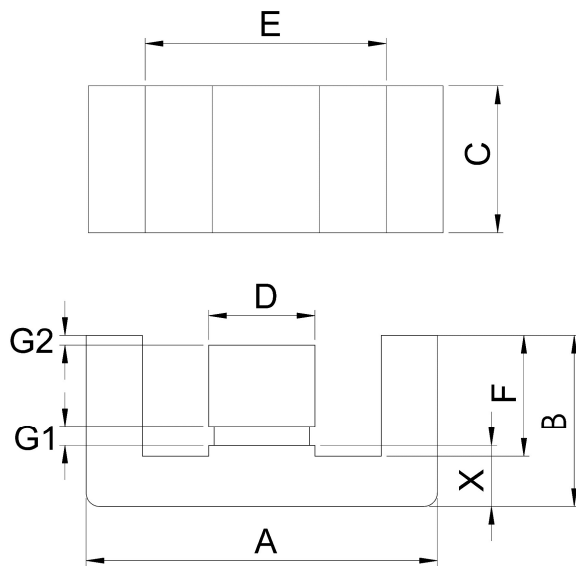
P53 EEH65/65

2026/Sep. Version 1.0

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Multi-gap Ferrite Core

EEH65/65



Core dimensions:

A	65.15 ± 1.20
B	32.50 ± 0.30
C	27.10 ± 0.40
D	19.65 ± 0.35
E	44.80 min
F	22.55 ± 0.30
X	10.25 ± 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
0.271 mm ⁻¹	146.5 mm	541.3 mm ²	531.9 mm ²	79329 mm ³	398 g

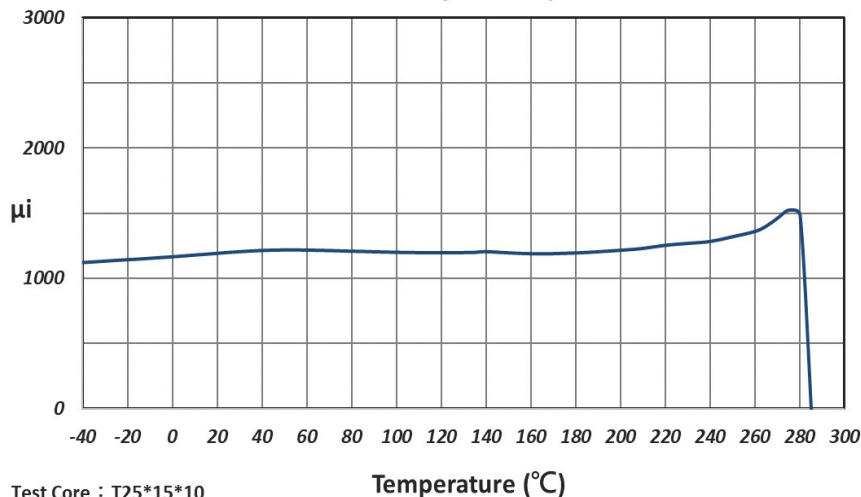
Material	Part no.	G1 (mm)	G2 (mm)	Inductance Factor A_L (nH/N ²)
P53	P53EEH65/65G549	0.60	0.30	549 ±10%
	P53EEH65/65G390	1.00	0.50	390 ±10%
	P53EEH65/65G254	1.50	0.75	254 ±10%

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

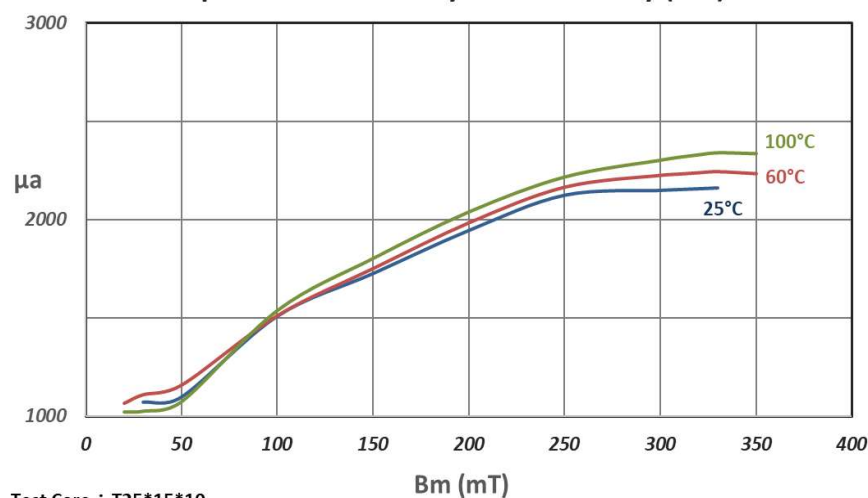
Material properties:

	Symbol	Unit	Measuring Conditions			P53
			Freq.	Flux den.	Temp.	
Initial Permeability	μ_i		10 kHz	0.25 mT	25°C	1900 ±25%
Amplitude Permeability	μ_a		25 kHz	200 mT	25°C	> 1900
					100°C	> 2000
Power Loss	Pv	kW/m ³	300 kHz	100 mT	25°C	350
					100°C	310
			500 kHz	50 mT	25°C	80
					100°C	60
			500 kHz	100 mT	25°C	650
					100°C	650
			1000 kHz	50 mT	25°C	300
					100°C	300
Saturation Flux Density	Bs	mT	10 kHz	1200 A/m	25°C	515
					100°C	420
Remanence	Br	mT	10 kHz	1200 A/m	25°C	180
					100°C	120
Coercivity	Hc	A/m	10 kHz	1200 A/m	25°C	38
					100°C	33
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
Density	d	g/cm ³				4.8

Initial Permeability vs Temperature



Amplitude Permeability vs Flux Density (Bm)



Complex Permeability vs Frequency

