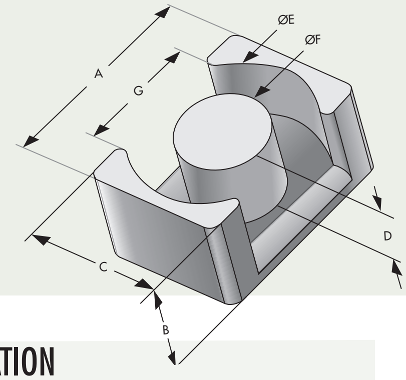
EQ Shape Cores



Magnetics introduces EQ shape powder cores for telecom rectifiers and Hybrid, Plug-In Hybrid, and Electric Vehicle on-board chargers.

EQ shape cores are a cross between E cores and pot cores. Similar to pot cores, the round center post of EQ cores offers minimal winding resistance, ideal for heavy gauge wire, while its planar shape facilitates low profile, compact design. In comparison to E cores and other non-planar cores, EQ powder cores offer better space utilization, shielding and improved thermal performance.

Custom heights are available upon request. Contact Magnetics with custom designs.

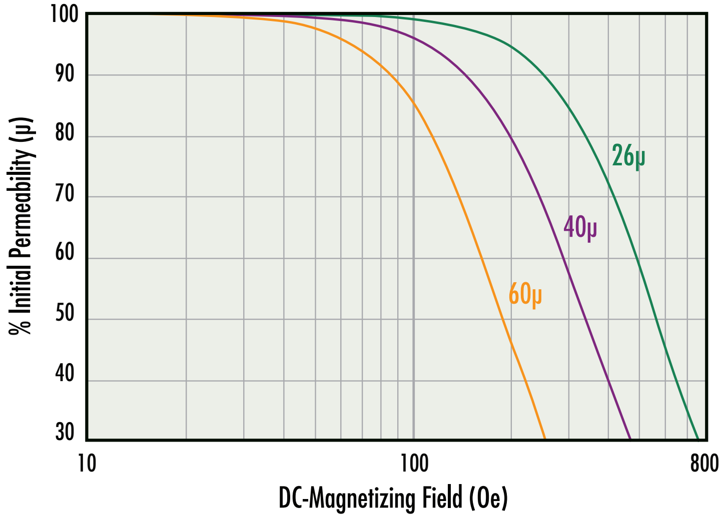
CORE IDENTIFICATION

EQ X 26 19 E060 L101

- L101: Height – B dim., e.g. 101 for 10.1
- E060: Permeability Code, e.g. 060 for 60µ
- 19: Width – C dim.
- 26: Length – A dim.
- X: Material Code, e.g. K=Kool Mµ, X=XFlux, H=High Flux
- EQ: EQ Shape

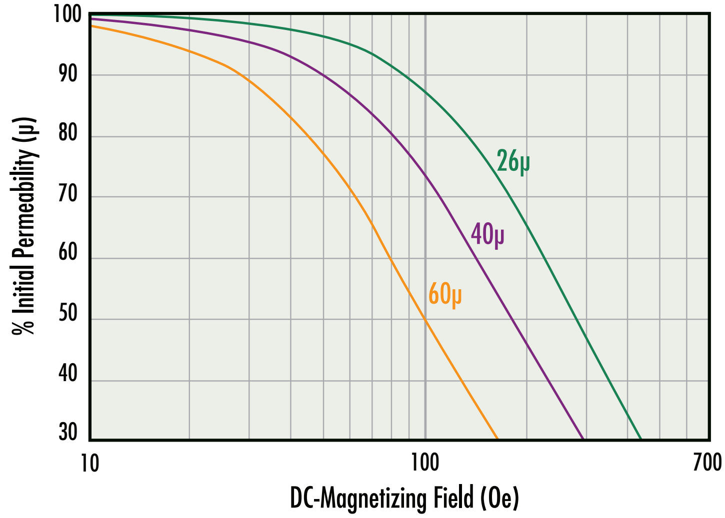
Part No.	Material	Perm (µ)	AL Value (nH/N²)	Dimensions (mm)							Path Length (mm)	Cross Section (mm²)
				A	B	C	D	E	F	G	L_e	A_e
EQH2619E060L124	High Flux	60	141		12.4		9.1				63.9	
EQX2619E060L070		60	213		7.0		3.7				42.3	
EQX2619E060L088	XFlux	60	183	26.5	8.8	19.0	5.5	22.6	12.0	15.0	49.5	119.8
EQX2619E060L101		60	165		10.1		6.8				54.7	
EQX2619E060L124		60	141		12.4		9.1				63.9	
EQH3222E026L152		26	62		15.2		11.5				79.9	
EQH3222E040L101	High Flux	40	129		10.1		6.4				59.5	
EQH3222E060L101		60	194		10.1		6.4				59.5	
EQK3222E026L152		26	62		15.2		11.5				79.9	
EQK3222E040L101		40	129		10.1		6.4				59.5	
EQK3222E040L152	Kool Mµ	40	96	32.0	15.2	22.0	11.5	27.6	13.5	20.4	79.9	152.3
EQK3222E060L101		60	194		10.1		6.4				59.5	
EQK3222E060L152		60	144		15.2		11.5				79.9	
EQX3222E026L152		26	62		15.2		11.5				79.9	
EQX3222E040L152	XFlux	40	96		15.2		11.5				79.9	
EQX3222E060L152		60	144		15.2		11.5				79.9	
EQH3626E026L174		26	62		17.4		13.4				94.7	
EQH3626E040L174	High Flux	40	96		17.4		13.4				94.7	
EQH3626E060L174		60	144		17.4		13.4				94.7	
EQK3626E026L174		26	62		17.4		13.4				94.7	
EQK3626E040L174	Kool Mµ	40	96	36.0	17.4	26.0	13.4	32.0	14.4	22.3	94.7	180.8
EQK3626E060L174		60	144		17.4		13.4				94.7	
EQX3626E026L174		26	62		17.4		13.4				94.7	
EQX3626E040L174	XFlux	40	96		17.4		13.4				94.7	
EQX3626E060L174		60	144		17.4		13.4				94.7	

XFlux Permeability vs. DC Bias



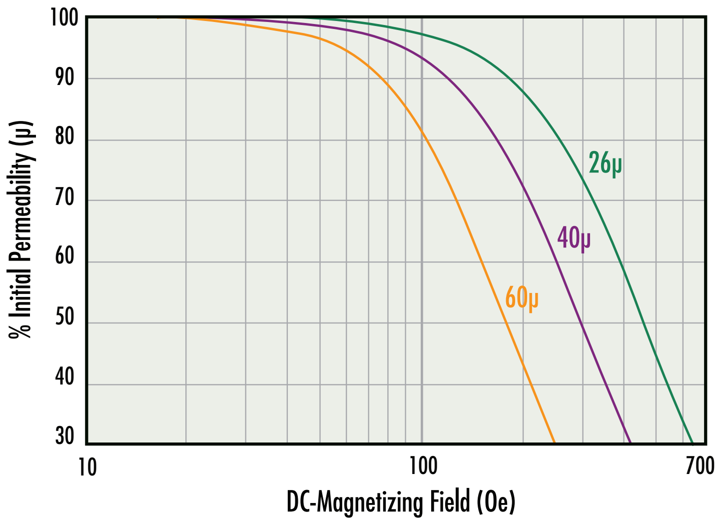
% Initial Permeability = $\frac{1}{(a+bH^c)}$	Perm.	a	b	c
	26	0.01	2.317E-10	2.778
	40	0.01	2.434E-09	2.613
	60	0.01	5.108E-09	2.761

Kool Mμ Permeability vs. DC Bias



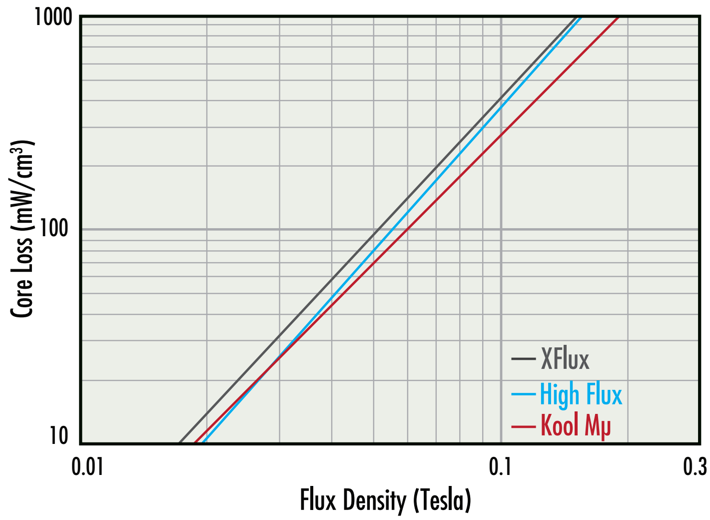
% Initial Permeability = $\frac{1}{(a+bH^c)}$	Perm.	a	b	c
	26	0.01	2.237E-07	1.900
	40	0.01	1.395E-06	1.710
	60	0.01	3.371E-06	1.736

High Flux Permeability vs. DC Bias



% Initial Permeability = $\frac{1}{(a+bH^c)}$	Perm.	a	b	c
	26	0.01	3.389E-09	2.430
	40	0.01	8.995E-09	2.441
	60	0.01	1.583E-08	2.572

Core Loss Density - 60μ, 50 kHz



$P = a(B^b)(f^c)$ (B in Tesla, f in kHz)		a	b	c
	High Flux	121.00	2.09	1.49
	Kool Mμ	300.14	1.95	1.12
	XFlux	356.67	2.12	1.28

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