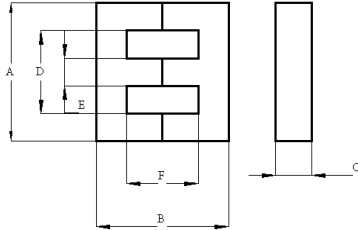


EE 42 x 20

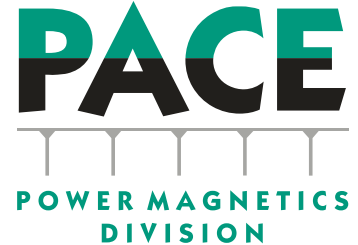
Ferrite E Cores to Din 21295 EE 42 x 20 Hitachi SB7C material

Data sheet Ref: APS-2 (15/02/02)



Magnetic Data for a pair of cores

Parameter	symbol	value
Effective magnetic path length	L_e	97.0mm
Effective area of magnetic path	A_e	182.0mm ²
Effective magnetic volume	V_e	17600mm ³
$\sum V_A$	CL	0.534mm ⁻¹



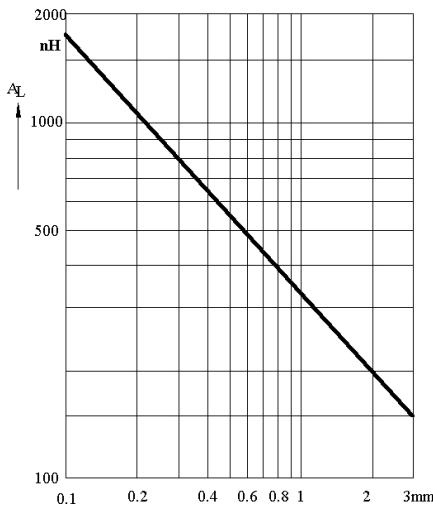
Dimensions

A	B	C	D	E	F
42.0 +1.3 -0.7	42.4 +0.4 -0.8	20.0 +0 -0.6	29.5 +1.7 -0	12.2 +0 -0.5	29.6 +1.4 -0

power loss as a function of flux density and frequency
16khz 200mt = 80m w/cc at temperature 25-80°C

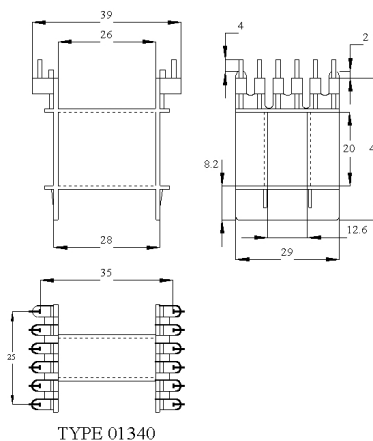
Standard Characteristics of Material

Material	μ_{iac}	$\tan \sigma / \mu_{iau}$ ($\times 10^{-5}$) 10KHz	$\alpha_{\mu r}$ ($\times 10^{-6}$)	TC (°C)	f (MHz)	ρ ($\Omega \cdot \text{cm}$)	Bms mT	Hcms Am ⁻¹	d g/cm ³
SB7C	2400 ±20%	0.2	-0.5	200	<0.3	40	490	13	4.9
CF129	1900 ±20%			>240		100	510	15	4.8



Typical AL (nH/t²) as a function of centre pole air gap

Accessories for EE42 x 20 cores Bobbin 12 pin PCB mounting



Power Magnetics

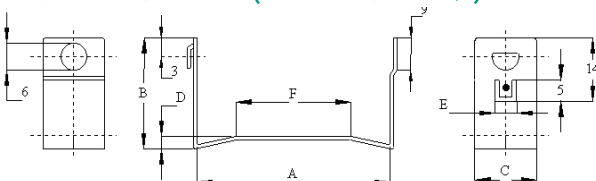
10 Balmer Cut,
Buckingham Industrial Park,
Buckingham MK18 1UL

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www.powermagnetics.co.uk

CLAMPS: STAINLESS STEEL (2 PER ASSEMBLY REQD)



TYPE	CODE	A	B	C	D	E	F
FK-E 42	78951	43.0	25.6	14.0	2.5	5.5	25

Bobbin moulded from glass loaded Polyamid 6.6 conforms to UL 94 HB
Temperature rating -60 to +120°C for 2 secs. Maximum soldering temperature
+350°C for 2 seconds.

