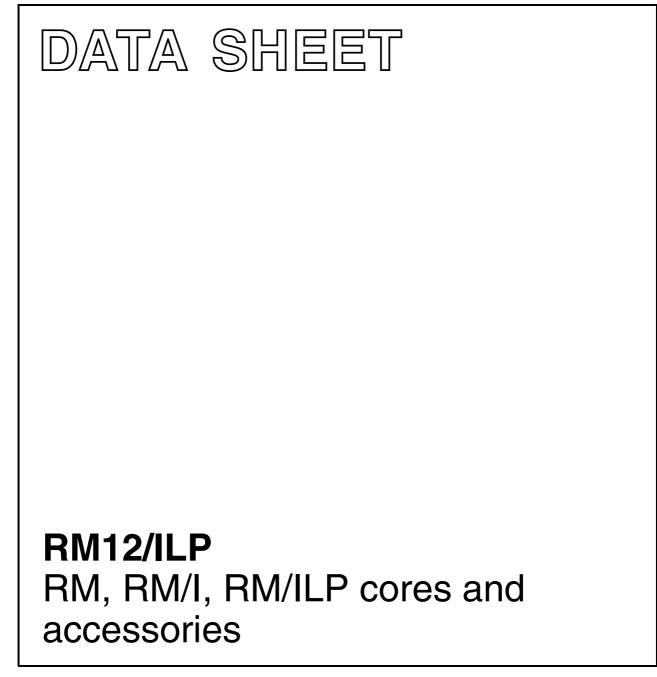
FERROXCUBE



Supersedes data of September 2004

2008 Sep 01



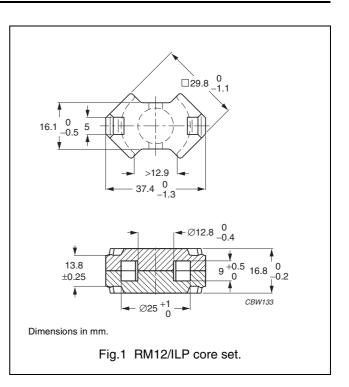
RM, RM/I, RM/ILP cores and accessories

RM12/ILP

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.280	mm ⁻¹
Ve	effective volume	6200	mm ³
l _e	effective length	42	mm
A _e	effective area	148	mm ²
A _{min}	minimum area	125	mm ²
m	mass of set	≈ 35	g



Core sets for general purpose transformers and power applications

Clamping force for A_L measurements, 70 ± 20 N.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3C90	7100 ±25%	≈1600	≈ 0	RM12/ILP-3C90
3C94	7100 ±25%	≈1600	≈ 0	RM12/ILP-3C94
3C95 des	8470 ±25%	≈1915	≈ 0	RM12/ILP-3C95
3C96 des	6700 ±25%	≈1510	≈ 0	RM12/ILP-3C96
3F3	6700 ±25%	≈1510	≈ 0	RM12/ILP-3F3
3F35 👓	5000 ±25%	≈ 1110	≈ 0	RM12/ILP-3F35
3F4 des	3600 ±25%	≈ 810	≈ 0	RM12/ILP-3F4

RM, RM/I, RM/ILP cores and accessories

RM12/ILP

	B (mT) at	CORE LOSS (W) at				
GRADE	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 100 kHz; B = 200 mT; T = 25 °C	f = 100 kHz; B = 200 mT; T = 100 °C	f = 400 kHz; B = 50 mT; T = 100 °C
3C90	≥315	≤ 0.75	≤ 0.79	—	_	-
3C94	≥315	—	≤ 0.62	—	≤ 3.3	-
3C95	≥315	—	_	≤ 3.66	≤ 3.47	-
3C96	≥315	—	≤ 0.49	—	≤ 2.6	≤ 1.1
3F3	≥300	—	≤ 0.68	—	1	≤ 1.2
3F35	≥300	—	-	—	-	-
3F4	≥250	_	_	_	-	_

Properties of core sets under power conditions

Properties of core sets under power conditions (continued)

	B (mT) at	CORE LOSS (W) at				
GRADE	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 500 kHz; Ĥ = 50 mT; T = 100 °C	f = 500 kHz; B = 100 mT; T = 100 °C	f = 1 MHz; B = 30 mT; T = 100 °C	f = 3 MHz; B = 10 mT; T = 100 °C	
3C90	≥315	-	-	_	_	
3C94	≥315	_	_	_	_	
3C95	≥315	_	-	-	_	
3C96	≥315	≤ 2.2	-	-	-	
3F3	≥300	_	-	-	_	
3F35	≥300	≤ 0.85	≤ 6.5	_	_	
3F4	≥250	_	_	≤ 1.8	≤ 3.0	

RM, RM/I, RM/ILP cores and accessories

DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.
Product specification	Production	This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product.

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PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION
Prototype	prot	These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
Design-in	des	These products are recommended for new designs.
Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support	sup	These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.