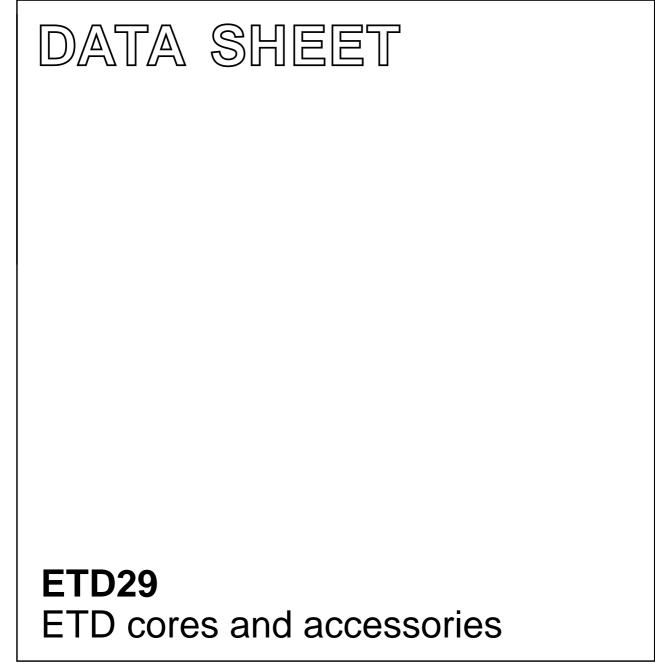
FERRITE CERAMICS



Product specification Supersedes data of November 1997 File under Ferrite Ceramics, MA01 2000 Apr 20

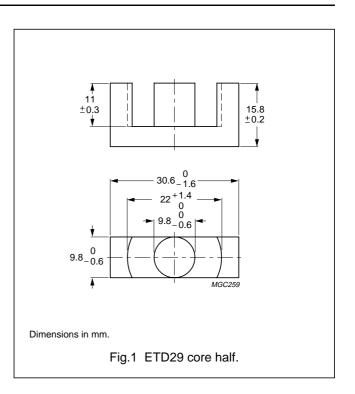


ETD29

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.947	mm ⁻¹
Ve	effective volume	5470	mm ³
l _e	effective length	72	mm
A _e	effective area	76	mm ²
A _{min}	minimum area	71	mm ²
m	mass of core half	≈14	g



Core halves

Clamping force for A_L measurements, 40 ± 20 N. Gapped cores are available on request.

GRADE	A _L (nH)	μ _e	AIR GAP (μm)	TYPE NUMBER
3C90	2350 ±25%	≈1850	≈0	ETD29-3C90
3F3	2200 ±25%	≈1700	≈0	ETD29-3F3

Properties of core sets under power conditions

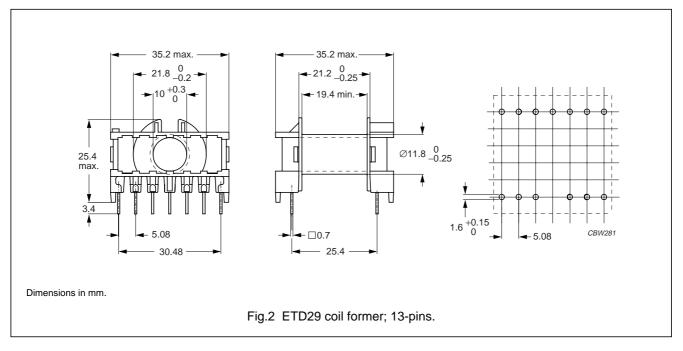
	B (mT) at		CORE LOSS (W) at	
GRADE	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; Ê = 200 mT; T = 100 °C	f = 100 kHz; Ĝ = 100 mT; T = 100 °C	f = 400 kHz; Ê = 50 mT; T = 100 °C
3C90	≥330	≤0.66	≤0.69	_
3F3	≥320	_	≤0.65	≤1.1

ETD29

COIL FORMER

General data 13-pins ETD29 coil former

PARAMETER	SPECIFICATION	
Coil former material	polybutyleneterephtalate (PBT), glass-reinforced, flame retardant in accordance with <i>"UL 94V-0"</i> ; UL file number E45329(R)	
Pin material	copper-tin alloy (CuSn), tin-lead alloy (SnPb) plated	
Maximum operating temperature	155 °C, <i>"IEC 60085"</i> , class F	
Resistance to soldering heat	"IEC 60068-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s	
Solderability	"IEC 60068-2-20", Part 2, Test Ta, method 1	



Winding data for 13-pins ETD29 coil former

NUMBER OF SECTIONS	WINDING AREA (mm²)	MINIMUM WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER
1	90	19.4	53	CPH-ETD29-1S-13P

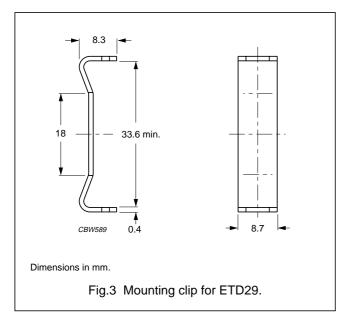
Product specification

ETD29

MOUNTING PARTS

General data

ITEM	REMARKS	FIGURE	TYPE NUMBER
Mounting clip	material: stainless steel	3	CLI-ETD29



ETD29

DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Philips Components 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. Philips Components 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.	