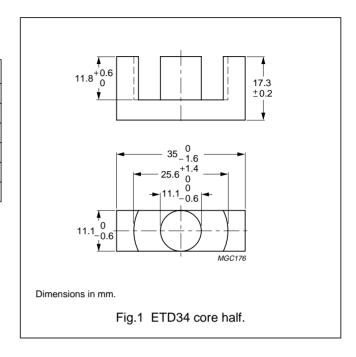
ETD cores and accessories

ETD34

CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
Σ(I/A)	core factor (C1)	0.810	mm ⁻¹
V _e	e effective volume		mm ³
l _e	effective length	78.6	mm
A _e	A _e effective area		mm ²
A _{min}	minimum area	91.6	mm ²
m	mass of core half	≈20	g



Core halves

Clamping force 40 ± 20 N. Gapped cores are available on request.

GRADE	A _L (nH)	$\mu_{\mathbf{e}}$	AIR GAP (μm)	TYPE NUMBER
3C30 des	2200 ±25%	≈1500	≈0	ETD34-3C30
3C85	2700 ±25%	≈1870	≈0	ETD34-3C85
3C90 des	2700 ±25%	≈1870	≈0	ETD34-3C90
3F3 des	2500 ±25%	≈1750	≈0	ETD34-3F3

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; B = 200 mT; T = 100 °C	f = 100 kHz; B = 100 mT; T = 100 °C	f = 400 kHz; B = 50 mT; T = 100 °C	
3C30	≥360	≤0.80	≤0.90	_	
3C85	≥320	≤1.10	≤1.30	_	
3C90	≥330	≤0.80	≤0.90	_	
3F3	≥320	_	≤0.90	≤1.6	

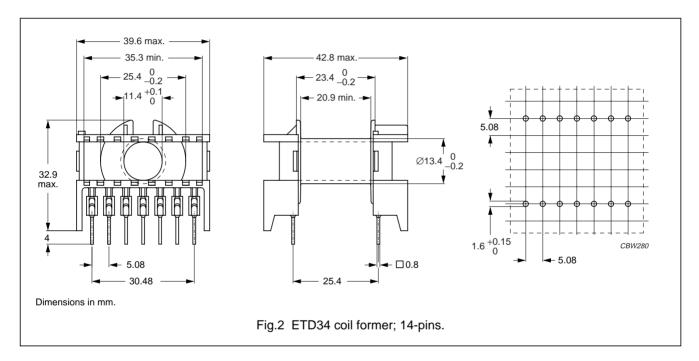
ETD cores and accessories

ETD34

COIL FORMERS

General data 14-pins ETD34 coil former

PARAMETER	SPECIFICATION		
Coil former material	polybutyleneterephtalate (PBT), glass-reinforced, flame retardant in accordance with "UL 94V-0"; UL file number E45329(R)		
Pin material	copper-tin alloy (CuSn), tin-lead alloy (SnPb) plated		
Maximum operating temperature	155 °C, <i>"IEC 85"</i> class F		
Resistance to soldering heat	"IEC 68-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s		
Solderability	"IEC 68-2-20", Part 2, Test Ta, method 1		



Winding data for 14-pins ETD34 coil former

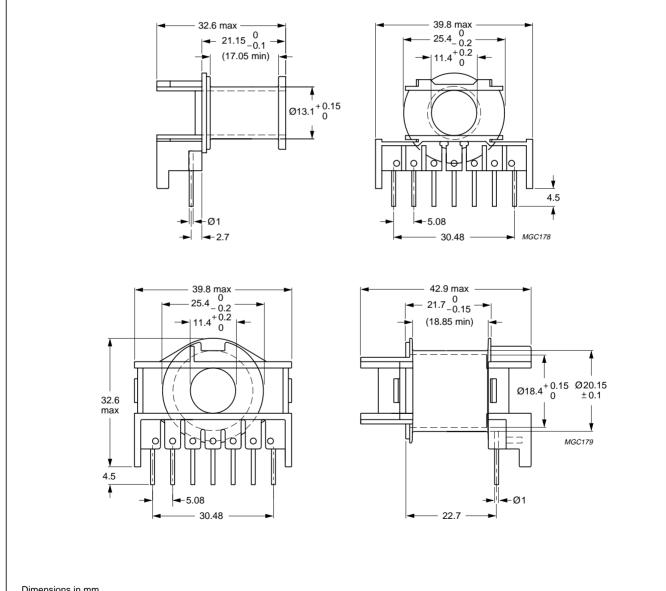
NUMBER OF SECTIONS	WINDING AREA (mm²)	MINIMUM WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER	
1	123	20.9	60	CPH-ETD34-1S-14P	

ETD cores and accessories

ETD34

General data 7-pins coaxial ETD34 coil former

PARAMETER	SPECIFICATION		
Coil former material	phenolformaldehyde (PF), glass-reinforced, flame retardant in accordance with "UL 94V-0", UL file number E63312(M)		
Pin material	copper-tin alloy (CuSn), tin-lead alloy (SnPb) plated		
Maximum operating temperature	180 °C, <i>"IEC 85"</i> class H		
Resistance to soldering heat	"IEC 68-2-20", Part 2, Test Tb, method 1B, 350 °C, 3.5 s		
Solderability	"IEC 68-2-20", Part 2, Test Ta, method 1		



Dimensions in mm.

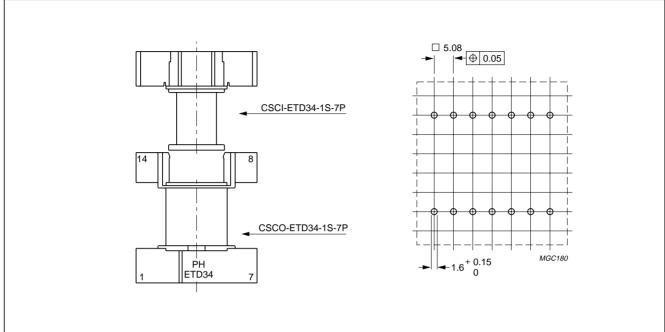
For mounting grid and method of fitting, see Fig.4.

Fig.3 Coaxial ETD34 coil former; 7-pins.

1997 Nov 21 360

ETD cores and accessories

ETD34



Dimensions in mm.

This coil former incorporates 8 mm creepage distance between primary and secondary windings, as well as between primary and all other conductive parts (in accordance with IEC 380 safety regulations).

Fig.4 Mounting grid and method of fitting.

Winding data for coaxial ETD34 coil former

NUMBER OF SECTIONS	WINDING AREA (mm²)	MINIMUM WINDING WIDTH (mm)	AVERAGE LENGTH OF TURN (mm)	TYPE NUMBER	
1	44.5	17	49.5	CSCI-ETD34-1S-7P	
1	49	18.9	71	CSCO-ETD34-1S-7P	

ETD cores and accessories

ETD34

MOUNTING PARTS

General data

ITEM	REMARKS	FIGURE	TYPE NUMBER
Mounting clip	Mounting clip material: stainless steel		CLI-ETD34

