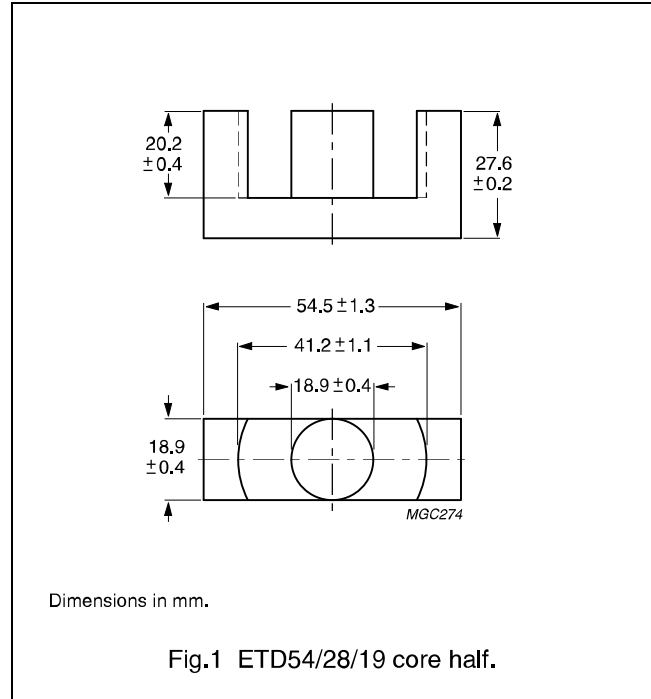


CORE SETS

Effective core parameters

SYMBOL	PARAMETER	VALUE	UNIT
$\Sigma(l/A)$	core factor (C1)	0.454	mm ⁻¹
V_e	effective volume	35500	mm ³
l_e	effective length	127	mm
A_e	effective area	280	mm ²
A_{min}	minimum area	270	mm ²
m	mass of core half	≈ 90	g



Core halves

Clamping force for A_L measurements, 50 ± 20 N. Gapped cores are available on request.

GRADE	A_L (nH)	μ_e	AIR GAP (μm)	TYPE NUMBER
3C90	5000 ± 25%	≈ 1810	≈ 0	ETD54/28/19-3C90
3C94	5000 ± 25%	≈ 1810	≈ 0	ETD54/28/19-3C94
3C95 <small>des</small>	6120 ± 25%	≈ 2210	≈ 0	ETD54/28/19-3C95
3F3	4600 ± 25%	≈ 1660	≈ 0	ETD54/28/19-3F3

Properties of core sets under power conditions

GRADE	B (mT) at	CORE LOSS (W) at				
	H = 250 A/m; f = 25 kHz; T = 100 °C	f = 25 kHz; B̂ = 200 mT; T = 100 °C	f = 100 kHz; B̂ = 100 mT; T = 100 °C	f = 100 kHz; B̂ = 200 mT; T = 25 °C	f = 100 kHz; B̂ = 200 mT; T = 100 °C	f = 400 kHz; B̂ = 50 mT; T = 100 °C
3C90	≥ 330	≤ 4.3	≤ 4.8	–	–	–
3C94	≥ 330	–	≤ 3.6	–	≤ 21	–
3C95	≥ 330	–	–	≤ 22.4	≤ 21.3	–
3F3	≥ 320	–	≤ 4.5	–	–	≤ 8.5