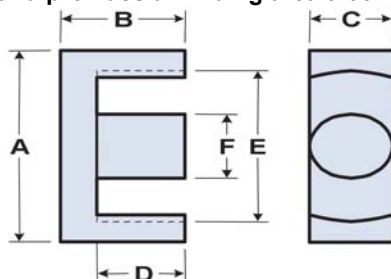


EER25.5/18, EER28/28, EER28/34, EER35/42, EER40/46, EER42/44, EER49/54

EER cores, similar to ETD cores, have been designed to make optimum use of a given volume of ferrite material for maximum throughput power. The structure, which includes a round center post, approaches a nearly uniform cross-sectional area throughout the core and provides a winding area that minimizes winding losses.



- EER cores can be supplied with the center post gapped to a mechanical dimension or an A_L value.
- A_L value is measured at 1 kHz, $B < 10$ gauss.
- Weight indicated is per pair or set.

Legend: Symbols & Definition

Dimensions (Top numbers are in millimeters, bottom numbers are in nominal inches.)

$\Sigma \ell / A$: Core Constant, ℓ_e : Effective Path Length, A_e : Effective Cross-Sectional Area, V_e : Effective Core Volume, A_L : Inductance Factor ($\frac{\ell}{N^2}$)

Explanation of part numbers: Digits 1 & 2 = product class, 3 & 4 = material grade.

Dimensions

Row #	Part Number	Generic Size	A	B	C	D	E	F	Wt. (g) per Set
(1)	9578261802 9598261802 9595261802	EER25.5	25.50 ± 0.5 1.004	9.30 ± 0.15 0.366	7.50 ± 0.25 0.295	6.40 ± 0.15 0.252	19.80 min 0.780 min	7.50 ± 0.25 0.295	11.20
(2)	9578282802 9598282802 9595282802	EER28/28	28.50 ± 0.6 1.122	14.00 ± 0.2 0.551	11.40 ± 0.3 0.449	9.60 ± 0.2 0.378	21.20 min 0.835 min	9.90 ± 0.3 0.390	28.00
(3)	9578283402 9598283402 9595283402	EER28/34	28.50 ± 0.6 1.122	16.90 ± 0.2 0.665	11.40 ± 0.3 0.449	12.50 ± 0.2 0.492	21.20 min 0.835 min	9.90 ± 0.3 0.390	32.00
(4)	9578354202 9598354202 9595354202	EER35/42	35.00 ± 0.65 1.378	21.00 ± 0.2 0.827	11.30 ± 0.3 0.445	15.00 ± 0.2 0.591	25.30 min 0.996 min	11.30 ± 0.3 0.445	46.00
(5)	9578404602 9598404602 9595404602	EER40/46	40.00 ± 0.7 1.575	22.90 ± 0.3 0.902	13.30 ± 0.3 0.524	15.90 ± 0.3 0.626	29.50 min 1.161 min	13.30 ± 0.3 0.524	80.00
(6)	9578424402 9598424402 9595424402	EER42/44	42.00 ± 0.7 1.654	22.00 ± 0.2 0.866	15.20 ± 0.35 0.598	15.40 ± 0.2 0.606	30.50 min 1.201 min	15.20 ± 0.35 0.598	96.00
(7)	9578495402 9598495402 9595495402	EER49/54	49.00 ± 0.8 1.929	27.00 ± 0.2 1.063	17.20 ± 0.35 0.677	18.70 ± 0.2 0.736	36.50 min 1.437 min	17.20 ± 0.35 0.677	158.00

Quick Link: www.fair-rite.com/eer

Magnetic Core Parameters

Table Continued ...

Row #	Part Number	$\sum lA(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_{\min}(\text{cm}^2)$	$A_L(\text{nH})$
(1)	9578261802 9598261802 9595261802	11.10	4.80	0.434	2.083	0.425	1800 ±25% 1800 ±25% 2200 ±25%
(2)	9578282802 9598282802 9595282802	7.30	6.29	0.859	5.398	0.77	2800 ±25% 2800 ±25% 3500 ±25%
(3)	9578283402 9598283402 9595283402	8.70	7.44	0.852	6.337	0.77	2600 ±25% 2710 ±25% 3350 ±25%
(4)	9578354202 9598354202 9595354202	8.20	9.11	1.11	10.14	1.00	2600 ±25% 2800 ±25% 3200 ±25%
(5)	9578404602 9598404602 9595404602	6.90	10.00	1.44	14.42	1.30	3400 ±25% 3600 ±25% 4200 ±25%
(6)	9578424402 9598424402 9595424402	5.20	9.79	1.87	18.26	1.81	4000 ±25% 4100 ±25% 5900 ±25%
(7)	9578495402 9598495402 9595495402	4.80	11.80	2.45	29.02	2.32	4200 ±25% 5350 ±25% 6500 ±25%