

# Ferrite Cores

## UR, URS Series

For Audio-Visual, TV, & Radio Equipment  
For Flyback Transformer

### MATERIAL CHARACTERISTICS

Material			HV22	HV45	
Initial permeability*	$\mu_i$		1800	2300	
Core loss*	$P_{cm}$	W/kg	[16kHz, 150mT, 100°C]	3.8	3
			[60kHz, 200mT, 100°C]	55	40
			[100kHz, 200mT, 100°C]	105	90
Saturation magnetic flux density* [H = 1194A/m]	$B_s$	mT	[23°C] 510	500	
Remanent flux density*	$B_r$	mT	410	380	
Coercive force*	$H_c$	A/m	170	130	
Curie temperature	$T_c$	°C min.	16	14	
Electrical resistivity*	$\rho_v$	$\Omega\cdot m$	200	200	
Density*	$\rho_b$	kg/m <sup>3</sup>	3	3	
Thermal expansion coefficient*	$\alpha$	ppm/°C	4.8×10 <sup>3</sup>	4.8×10 <sup>3</sup>	
			12	12	

\*Average value

- The values were obtained with toroidal cores at room temperature unless otherwise shown.
- 1 (mT): 10(gauss), 1(A/m): 0.012566(Oersted)

### UR SERIES

#### SHAPES AND DIMENSIONS [Typical]

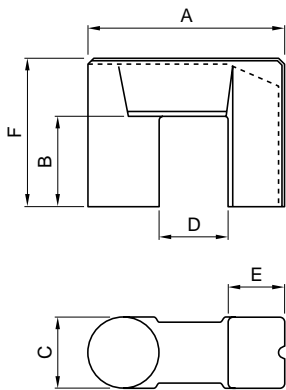


Fig.1

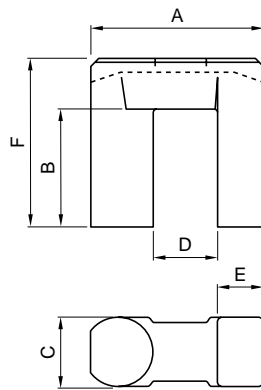
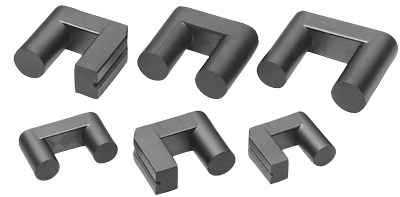


Fig.2



Type	Fig.	Dimensions (mm)						Ae (mm <sup>2</sup> )	le (mm)
		A	B	C	D min.	E	F		
UR30.4DM	1	30.4	21.6	10	11.7	8.15	30	77.7	138.3
UR34DA	1	34.7	17.5	12.5	12.1	9.6	27.1	118.3	127.6
UR36HK	2	35.05	24	12.7	13.05	9.3	34.3	118.5	155.5
UR37DA	1	37.2	20.1	13	13.2	10.5	30.6	130.9	142.7
UR39DA	1	38.9	25	14	12.95	11.3	36	150	164.3
UR40SL	1	40	18.4	14	14	11.5	30.2	153.4	141.1
UR40DA	1	40.05	20.1	14.5	13.45	11.5	31.1	158.5	146.2
UR41DA	1	41.6	25	15	14.2	11.8	37	171.6	169.5
UR43DA	1	43.4	25	16.5	13.5	12.8	38	205.2	171.6
UR46DB	1	45.75	25	17.5	14.65	13	38	223.3	174.9

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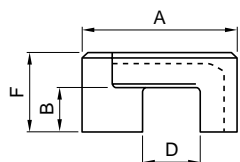


Fig.1



Fig.2

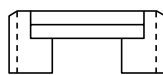
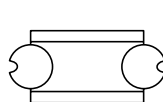
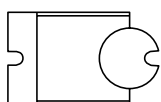
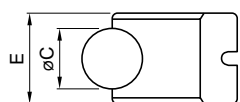


Fig.3



Type	Fig.	Dimensions (mm)						Ae (mm <sup>2</sup> )	le (mm)
		A	B	C	D min.	E	F		
URS18.5	1	18.5	5.5	7	7	10	9.5	37.8	51.9
URS36	3	35.5	8	10	15.5	17	14	80.4	101.9
URS27	2	26.85	8.2	10.5	10.35	16.5	13	77.9	75.8