

ENCAPSULATED STANDARD TOROIDAL TRANSFORMERS

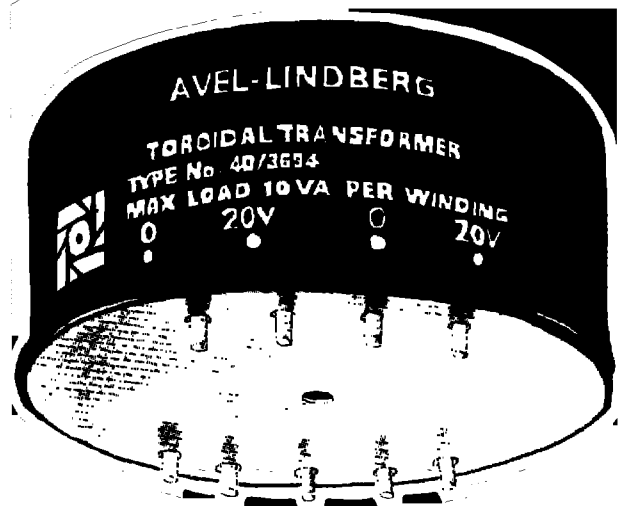
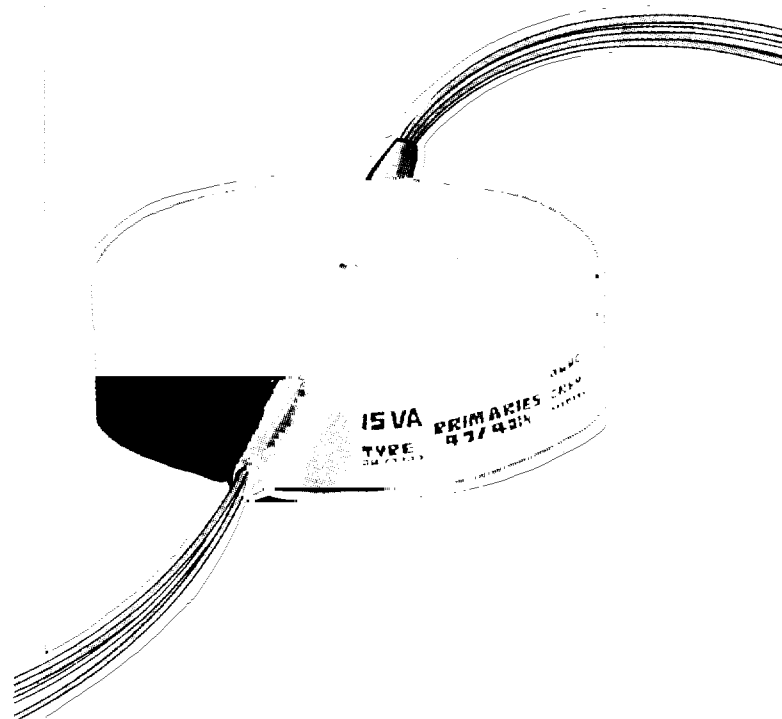
Avel's encapsulated standard transformers have been designed for both PCB and flexible lead connection. The resin filled thermo-plastic case protects the transformer from harsh environmental conditions and accidental damage.

These low profile toroids are readily available for prototype trials and production orders. The methods and materials used in manufacture ensure a consistently high quality product.

These toroids can be operated continuously at power levels up to 25% higher than nominal in complete safety but are subject to degraded regulation and temperature rise figures.

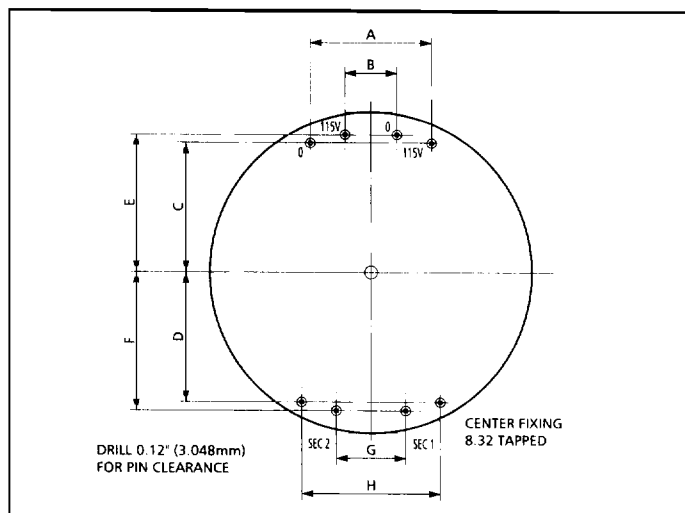
The secondaries may also be connected in series or parallel but if isolated from each other the potential difference must not exceed 250V DC.

This type of construction can also be used for custom built toroidals on request.



AVEL

PIN LAYOUT

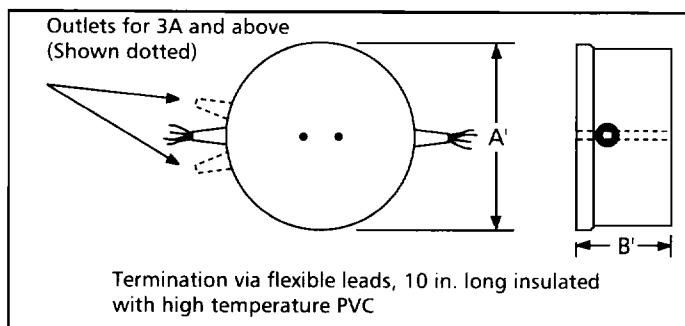


DIMENSIONS FOR PRINTED CIRCUIT STYLE

	A	B	C	D	E	F	G	H	
15VA	30.48 1.20	10.16 0.40	22.86 0.90	22.86 0.90	27.94 1.10	27.94 1.10	15.24 0.60	35.56 1.40	mm inches
30VA	30.48 1.20	10.16 0.40	33.02 1.30	30.48 1.20	35.56 1.40	35.56 1.40	20.32 0.80	40.64 1.60	mm inches
50VA	35.36 1.40	15.24 0.60	38.10 1.50	38.10 1.50	40.64 1.60	40.64 1.60	20.32 0.80	40.64 1.60	mm inches

Recommended drill size 3mm (0.125 inches)

FLEXIBLE LEAD STYLE



PERFORMANCE DETAILS

Input line voltage: 115 or 230V

Frequency: 50/60Hz Operating Range 47 to 400Hz

Secondary voltage tolerance: within 3% at nominal input and full load.

Nominal Load VA	Regulation	Temperature Rise °C	Iron Loss W	Copper Loss W
15	15%	14	0.26	2.25
30	13%	30	0.40	4.00
50	10%	35	0.60	5.00
90	7%	40	1.00	6.50
130	6.5%	40	2.00	10.00

Type	Primary Volts V	Nom. Load VA	Secondary RMS Volts V	Secondary RMS Current A	Dimensions Dia. Ht. A in. B in.	Weight lbs. Typical	Mounting
▼ PRINTED CIRCUIT STYLE ▼							
40/3030	115+115	15	6+6	1.250	2.60 1.30	0.77	8-32 Central
40/3031	115+115	15	9+9	0.830	2.60 1.30	0.77	
40/3032	115+115	15	12+12	0.625	2.60 1.30	0.77	
40/3033	115+115	15	15+15	0.500	2.60 1.30	0.77	
40/3034	115+115	15	20+20	0.375	2.60 1.30	0.77	
40/3035	115+115	30	6+6	2.500	3.25 1.40	1.30	8-32 Central
40/3036	115+115	30	9+9	1.666	3.25 1.40	1.30	
40/3037	115+115	30	12+12	1.250	3.25 1.40	1.30	
40/3038	115+115	30	15+15	1.000	3.25 1.40	1.30	
40/3039	115+115	30	20+20	0.750	3.25 1.40	1.30	
40/3040	115+115	50	9+9	2.800	3.75 1.55	2.00	2x8-32 spaced 0.40 in
40/3041	115+115	50	12+12	2.100	3.75 1.55	2.00	
40/3042	115+115	50	15+15	1.670	3.75 1.55	2.00	
40/3043	115+115	50	20+20	1.250	3.75 1.55	2.00	
40/3044	115+115	50	25+25	1.000	3.75 1.55	2.00	
▼ FLEXIBLE LEAD STYLE ▼							
40/3000	115+115	15	6+6	1.250	2.70 1.25	0.77	8-32 Central
40/3001	115+115	15	9+9	0.830	2.70 1.25	0.77	
40/3002	115+115	15	12+12	0.625	2.70 1.25	0.77	
40/3003	115+115	15	15+15	0.500	2.70 1.25	0.77	
40/3004	115+115	15	20+20	0.375	2.70 1.25	0.77	
40/3005	115+115	30	6+6	2.500	3.30 1.35	1.30	8-32 Central
40/3006	115+115	30	9+9	1.666	3.30 1.35	1.30	
40/3007	115+115	30	12+12	1.250	3.30 1.35	1.30	
40/3008	115+115	30	15+15	1.000	3.30 1.35	1.30	
40/3009	115+115	30	20+20	0.750	3.30 1.35	1.30	
40/3010	115+115	50	9+9	2.800	3.90 1.55	2.00	2x8-32 spaced 0.40 in
40/3011	115+115	50	12+12	2.100	3.90 1.55	2.00	
40/3012	115+115	50	15+15	1.670	3.90 1.55	2.00	
40/3013	115+115	50	20+20	1.250	3.90 1.55	2.00	
40/3014	115+115	50	25+25	1.000	3.90 1.55	2.00	
40/3015	115+115	90	12+12	3.750	4.20 1.80	3.00	2x8-32 spaced 0.40 in
40/3016	115+115	90	15+15	3.000	4.20 1.80	3.00	
40/3017	115+115	90	20+20	2.250	4.20 1.80	3.00	
40/3018	115+115	90	25+25	1.800	4.20 1.80	3.00	
40/3019	115+115	90	30+30	1.500	4.20 1.80	3.00	
40/3020	115+115	130	18+18	3.610	4.90 1.90	4.30	2x8-32 spaced 0.80 in
40/3021	115+115	130	22+22	3.000	4.90 1.90	4.30	
40/3022	115+115	130	30+30	2.160	4.90 1.90	4.30	
40/3023	115+115	130	35+35	1.850	4.90 1.90	4.30	
40/3024	115+115	130	40+40	1.620	4.90 1.90	4.30	

Primary to Secondary insulation 2500V R.M.S.

Maximum operating temperature 55°C ambient.

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