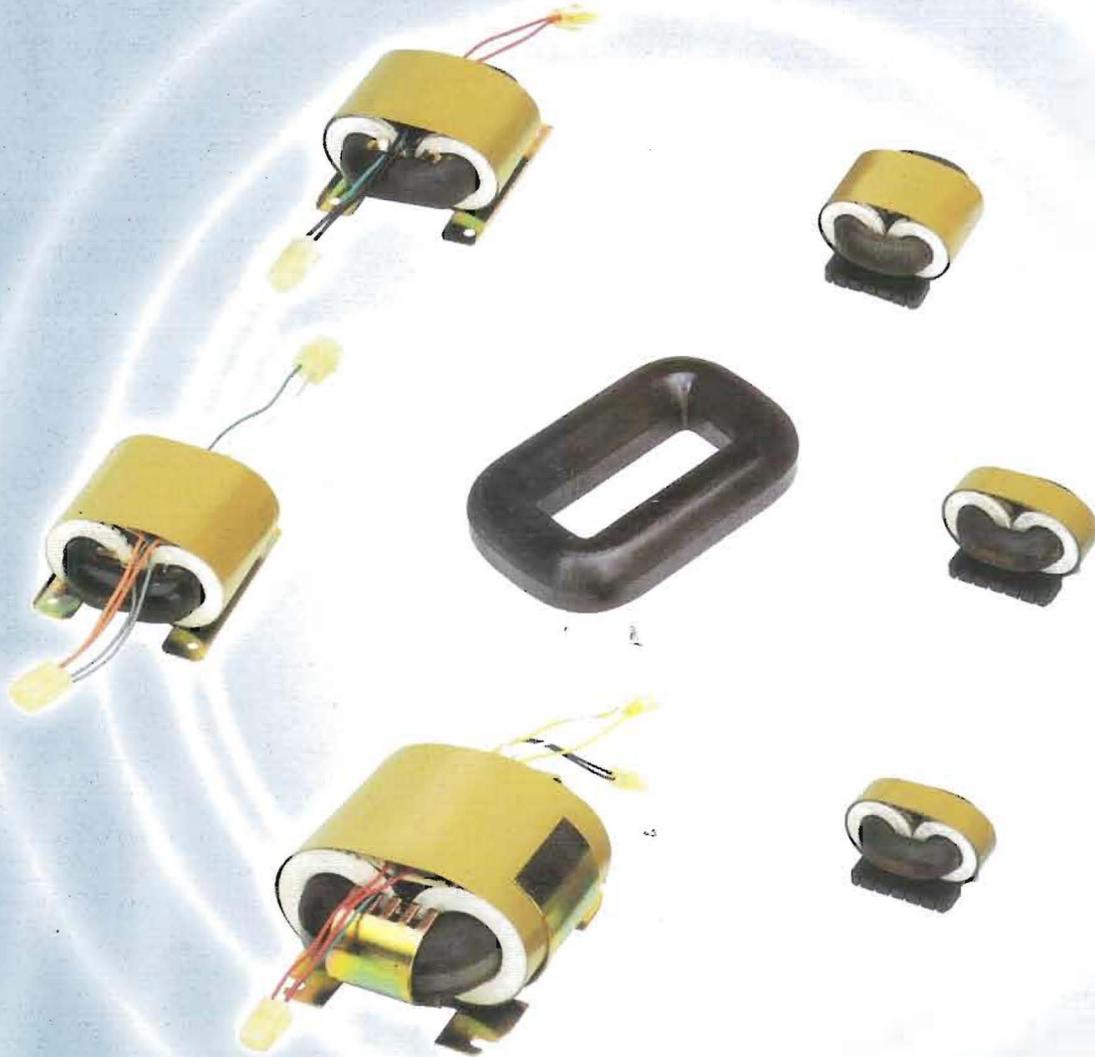




# R CORE TRANSFORMERS

## THE BEST PERFORMANCE IN THE SMALLEST DIMENSION

- 30% SMALLER, THINNER & LIGHTER THAN E-I TYPE
- SECTIONLESS CORE ALLOWS A NOISELESS PERFORMANCE
- COMPACT DESIGN LEADS TO A SIGNIFICANT SPACE SAVING
- HIGHER PERFORMANCE THAN TROIDAL TRANSFORMER
- LEAKAGE FLUX IS LESS THAN 1/10TH OF E-I TYPE
- TEMPERATURE RISE IS LESS THAN HALF OF E-I TYPE
- THE LOWEST COST IS REALIZED BY A SIMPLE STRUCTURE
- APPROVED BY VARIOUS SAFETY STANDARDS (UL, CSA, CE CLASS II)

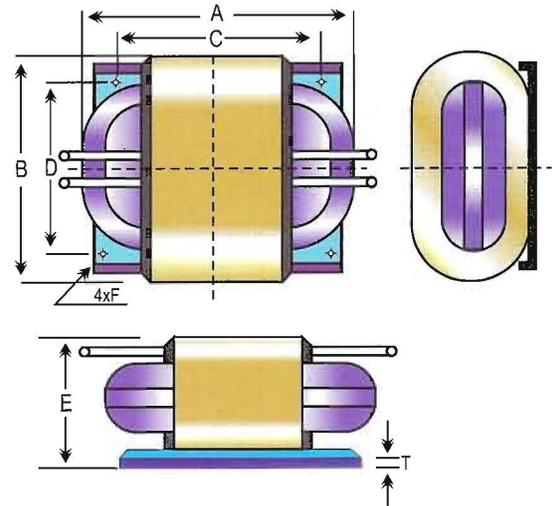


- COMPUTERS • PERIPHERAL EQUIPMENT • CRT • PRINTER • FLOPPY DISK DRIVE
- VIDEO EQUIPMENT • TELEFAX • COPIER • AUDIO EQUIPMENT • TV SET • MEASUREMENT EQUIPMENT
- MOVIE EQUIPMENT • MEDICAL EQUIPMENT • ROBOT EQUIPMENT • COMMUNICATION EQUIPMENT

**Engineered for Performance, Tested for Reliability**

| R-CORE | A   | B   | C   | D   | E  | t   | F    | VA       | W(kg) |
|--------|-----|-----|-----|-----|----|-----|------|----------|-------|
| R-5    | 48  | 62  | 27  | 45  | 35 | 0.5 | 4.0φ | 5-8      | 0.230 |
| R-10   | 74  | 60  | 50  | 45  | 32 | 1.0 | 4.0φ | 5-15     | 0.4   |
| R-20   | 81  | 68  | 55  | 45  | 37 | 1.0 | 4.0φ | 15-30    | 0.5   |
| R-30   | 96  | 74  | 70  | 60  | 41 | 1.0 | 5.0φ | 30-40    | 0.7   |
| R-40   | 98  | 80  | 70  | 60  | 43 | 1.0 | 5.0φ | 40-50    | 0.9   |
| R-50   | 100 | 86  | 75  | 65  | 47 | 1.0 | 5.0φ | 50-65    | 1.0   |
| R-75   | 101 | 97  | 70  | 80  | 54 | 1.0 | 5.0φ | 70-105   | 1.3   |
| R-80   | 123 | 90  | 90  | 70  | 50 | 1.2 | 5.0φ | 80-110   | 1.4   |
| R-100  | 124 | 102 | 100 | 80  | 55 | 1.2 | 5.0φ | 110-150  | 1.8   |
| R-160  | 139 | 110 | 100 | 85  | 63 | 1.6 | 5.0φ | 150-210  | 2.6   |
| R-260  | 160 | 121 | 128 | 96  | 68 | 1.6 | 5.0φ | 210-290  | 3.1   |
| R-320  | 163 | 128 | 135 | 95  | 70 | 1.6 | 5.0φ | 290-380  | 3.8   |
| R-600  | 189 | 143 | 142 | 100 | 80 | 1.6 | 8.0  | 380-750  | 6.5   |
| R-1000 | 225 | 172 | 180 | 140 | 99 | 2.3 | 8.0  | 750-1200 | 10.5  |
| R-30L  | 121 | 65  | 95  | 50  | 39 | 1.0 | 4.0φ | 30-45    | 0.9   |
| R-80L  | 129 | 82  | 110 | 70  | 45 | 1.0 | 5.0φ | 65-80    | 1.3   |

# R-CORE TRANSFORMER



Comparison data of leakage Flux

All dimensions in mm.  
 E dimension may vary depending on the number of terminals.  
 Specifications may change without notification due to product modification.

## R-CORE TRANSFORMER APPLICATION

### A light, thin and small transformer

In comparison with EI transformer of the same capacity, R-core transformer allows designers to place transformer at clearance of components. This is simply possible due to 40% smaller design and low temperature elevation. The transformer can be positioned anywhere since leakage flux is less than 1/10 of conventional model. Many electronics designers mentioned that their equipment design become much easier and reliable with R-core transformer.

### R-core transformer placed close to CRT

This CRT display manufacturer could position transformer right next to CRT even without noise control device. R-core transformer control leakage flux and picture flickering while giving thin and light design capability.

### CRT display

Office computer operator complained that she has eye trouble with glittering and distorting picture on CRT display. After applying R-core transformer, operator preferred to use the CRT display rather than competitors', since display became much clearer.

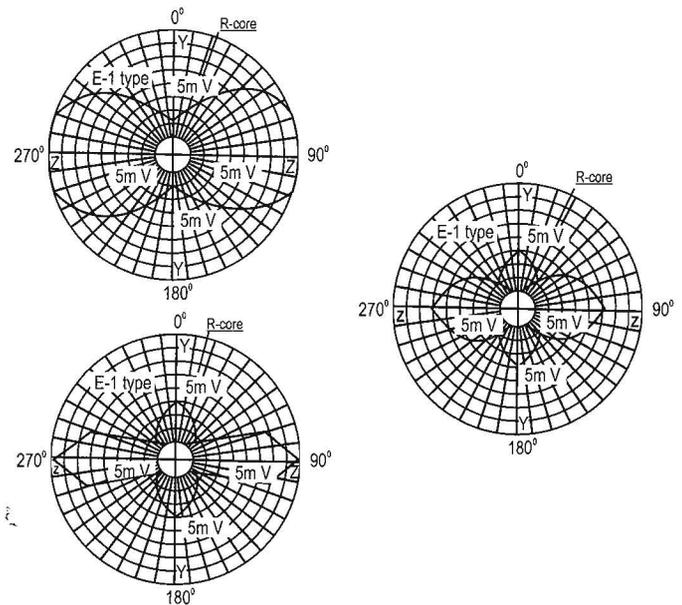
### Audio Equipment

This company solved the dead-lock problem by adopting R-core transformer while improving its own market competitiveness. Acoustic performance improved significantly by eliminating leakage flux and beat.

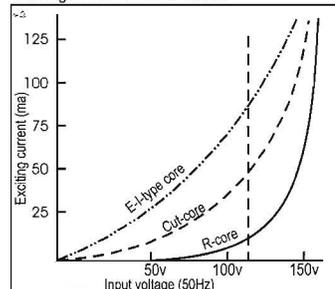
Total equipment weight reduced by 2 kg and finally sales increased by 200% within 6 months.

### Home-use satellite communication receiver

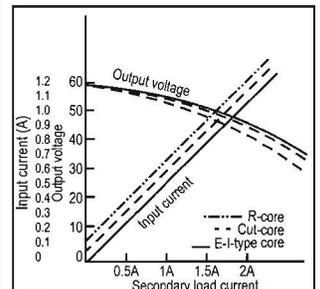
Compact and attractive design is realized by applying R-core transformer. After evaluating various models at development stage engineers have finally selected R-core transformer for its overall best performance, especially clarity of picture, low noise level and acoustic performance.



Exciting Current Characteristics



Secondary Voltage/Current Characteristics



**SHILCHAR**  
 TECHNOLOGIES LIMITED



ISO 9002  
 File No. A13342