

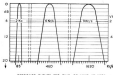


# Hi-Q IF TRANSFORMERS—Series (DIF—85 Kc/s to 1.6 Mc/s—FOR VALVE DESIGNS)



work. However, where a broader bandwidth is needed this is easily obtained by simply outgating one core in each Xfr to its second resonance point. This core will then be through one of the pot assemblies on the inside and nearer to the other core. For maximum selectivity, of course, each core at resonance is towards the outside of each pot, so that the two cores are farthest away from each other.

• The complete IF assembly is enclosed in a PVC sleeve and held in the aluminium can by a toughened polystyrene screw and



RESONANCE CURVES FOR TWO TYPES OF CORES IN SERIES (400Kc/s, 800Kc/s & 1.6 Mc/s)

• These high-quality IF transformers are enclosed in aluminium cans  $\frac{1}{2}$  in. square x  $\frac{3}{8}$  in. high and comprise two critically spaced pot-core assemblies with adjustable ferrite cores. All windings are polypropylene impregnated. The assemblies are mounted on high-grade phenolic formers. Serrated side-wings from top planes connect with riveted pillar lugs, marked 1-6.

• Self-loading ferrite cores with hexagon holes are suitable for use with tool TTI in tool section of this catalogue. Close tolerance silver mica capacitors are used for capacitive loading.

• The pot-core assemblies in the interstage IF Xfrs are critically spaced (just below optimum coupling) to give an improved selectivity factor, whilst the (D' range have tighter coupling suitable for diode detector

Code	Application	Intermediate Frequency	Ptg.	Centre Taps
SI/DIF-1-85	Input/interstage	85 Kc/s	1	No
SI/DIF-1-85D	Diode coupling		1	No
SI/DIF-5-85	Input/interstage		5	L. Pri & Sec
SI/DIF-1-100	Input/interstage		1	No
SI/DIF-1-100D	Diode coupling	100 Kc/s	1	No
SI/DIF-5-100	Input/interstage		5	L. Pri & Sec
SI/DIF-1-46	Input/interstage		1	No
SI/DIF-1-46D	Diode coupling		1	No
SI/DIF-3-46	Input/interstage	460 Kc/s	3	C. Pri & Sec
SI/DIF-4-46	Converter output 750		4	No
SI/DIF-5-46	Input/interstage		5	L. Pri & Sec
SI/DIF-7-46	Output 10:1 C tap		7	No
SI/DIF-1-16	Input/interstage	1.6 Mc/s	1	No
SI/DIF-1-16D	Diode coupling		1	No
SI/DIF-3-16	Input/interstage		3	C. Pri & Sec
SI/DIF-4-16	Converter output 750		4	No
SI/DIF-5-16	Input/interstage	5	L. Pri & Sec	

## ELECTRONIQUES Hi-Q IF TRANSFORMERS—Series (DIF—85 Kc/s to 1.6 Mc/s—FOR VALVE DESIGNS)

spring washer from the top, and by two 3/64 1-32 screws at the base of the can, these screws also serving to clamp the Xfr to the chassis. The design centre frequency of the transformer is either 85 Kc/s, 100

Kc/s, 460 Kc/s, 1.6 Mc/s but each series can be adjusted to at least  $\pm 5\%$  of the centre frequency without any measurable change in performance.



FIG. 1  
DIF-1D



FIG. 2  
DIF-2



FIG. 3  
DIF-3



FIG. 4  
DIF-4  
DIF-5



FIG. 5  
DIF-1A



FIG. 7  
DIF-7



BASE A