



HI-Q IF TRANSFORMERS—SERIES 2/DIF—50 KC/S TO 1.6 MC/S



proved selectivity factor, while the ID range have tighter coupling suitable for diode detector work. However, where a broader bandwidth is needed this is easily obtained by simply coilaging one core in each Xf to its second resonance point. This core will then be through one of the pot assemblies on the inside and react to the other core. For maximum selectivity,

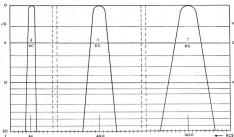
of course, each core at resonance is towards the outside of each pot, so that the two cores are farthest away from each other.

- The complete IF assembly is enclosed in a PVC sleeve and held in the aluminum can by a toughened polystyrene screw and spring washer from the top, and by two

- These high-quality IF transformers are enclosed in aluminum cans 1 x 1 1/2 x 2 1/2 in. high and comprise two critically spaced pot-core assemblies with adjustable ferrite cores. All windings are polystyrene impregnated. The assemblies are mounted on high-grade phenolic laminar. Stranded side-wires from top plate connect with silvered pillar lugs, marked 1-6.

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

- The pot-core assemblies in the interstage IF Xfs are critically spaced just before optimum coupling to give an in-



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SBA 1/4-in. screws at the base of the can, these screws also serving to clamp the Xfs to the chassis. The design centre frequency of the transformers is either 50

Kc/s, 85 Kc/s, 100 Kc/s, 400 Kc/s, 1.6 Mc/s but each series can be adjusted to at least $\pm 3\%$ of the centre frequency without any measurable change in performance.

Code	Application	IF Frequency	Centre Tapped Windings	C1 & C3 (μ F)
S2/DIF-1-50	Interstage	50 Kc/s	No	1100
S2/DIF-1-50D	Diode coupling	50 Kc/s	No	1100
S2/DIF-6-50	Interstage	50 Kc/s	Yes	1100
S2/DIF-1-85	Interstage	85 Kc/s	No	750
S2/DIF-1-85D	Diode coupling	85 Kc/s	No	750
S2/DIF-6-85	Interstage	85 Kc/s	Yes	750
S2/DIF-1-100	Interstage	100 Kc/s	No	540
S2/DIF-1-100D	Diode coupling	100 Kc/s	No	540
S2/DIF-6-100	Interstage	100 Kc/s	Yes	540
S2/DIF-1-400	Interstage	400 Kc/s	No	300
S2/DIF-1-400D	Diode coupling	400 Kc/s	No	300
S2/DIF-6-400	Interstage	400 Kc/s	Yes	300
S2/DIF-1-1.6	Interstage	1.6 Mc/s	No	300
S2/DIF-1-1.6D	Diode coupling	1.6 Mc/s	No	300
S2/DIF-1-1.6	Interstage	1.6 Mc/s	Yes	300



Fig. 20
--- Lines Fig. 11



Series 2