

Deci-Ouncer Transformers



DOTS for short

REVOLUTIONARY TRANSISTOR* TRANSFORMERS

UTC has been the leader in miniaturization for over twenty years. In view of this, it was surprising to many people that UTC did not quickly bring out a series of transformers designed for use and comparable in size to transistors. Unfortunately, extremely miniature transistor transformers of standard construction had poor general characteristics, poor reliability characteristics, and were woefully inadequate for a large number of applications. Instead, UTC started a development program to evolve a new transistor transformer structure designed to provide full performance in extremely miniature size. The culmination of this development is found in the new DOT series**. Listed below are the standard types of DOTS now being made and curves showing their general characteristics in typical transistor application. To fully appreciate the unprecedented performance of these revolutionary transistor transformers, the curves also show characteristics of similar size units now on the market.

Special DOT units (some even smaller in size) are available on production order.

High Power Rating . . . up to 100 times greater.

DOT-1 has 5% distortion at 100 mw, other mfr. 6% at 1 mw.

Excellent Response . . . twice as good at low end.

DOT-3 is down 1 db at 200 cycles, other mfr. is down 4 db.

Low Distortion . . . reduced 80%.

DOT-1 shows 3% distortion where other mfr. shows 20%.

High Efficiency . . . up to 30% better.

DOT-1 has 850 ohm pri. resistance, 125 ohm sec.; other mfr. approx. 1200 and 200.

Moisture Proof . . . processed to hermetic specs.

DOT units are hermetic sealed compared to other mfr. open structures.

Rugged . . . completely cased.

DOT units can withstand all mechanical stresses.

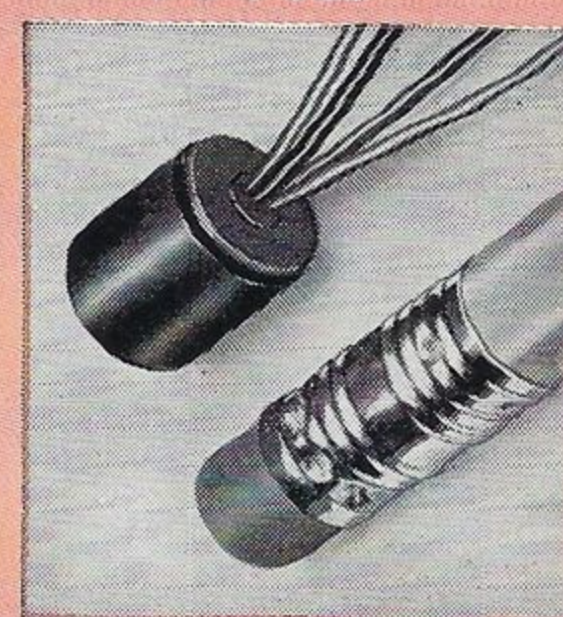
Anchored leads . . . will withstand 10 pound pull test.

Lead strain completely isolated from coil winding.

Printed Circuit Use . . . plastic insulated leads at one end.

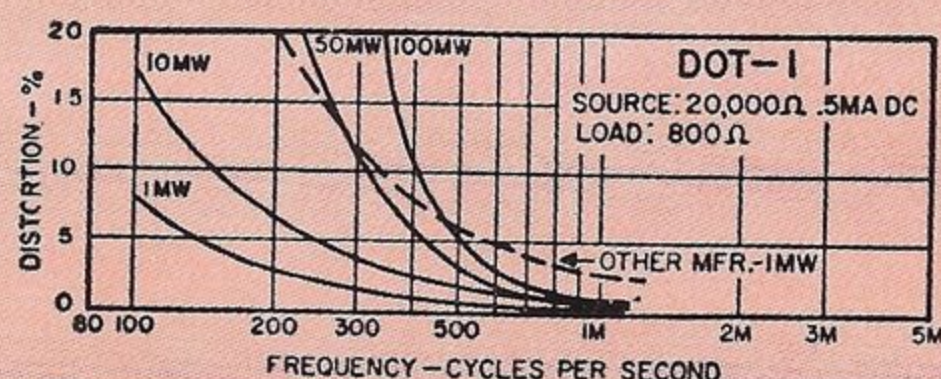
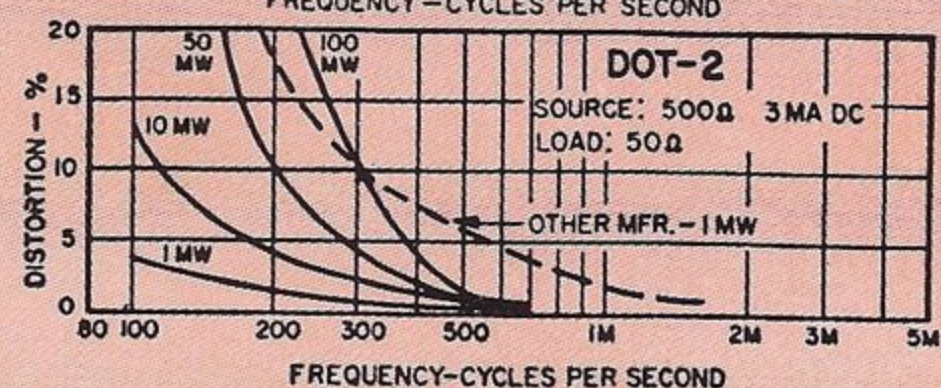
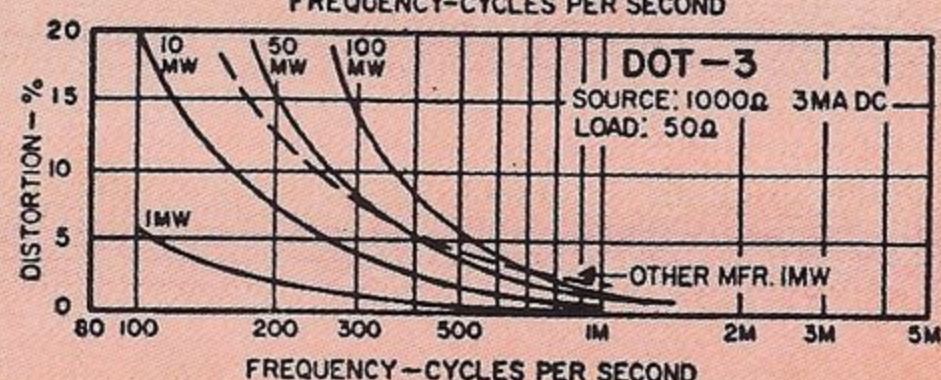
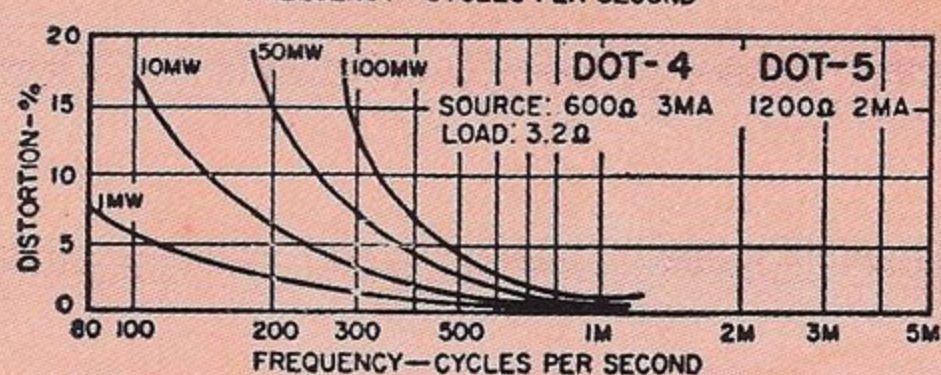
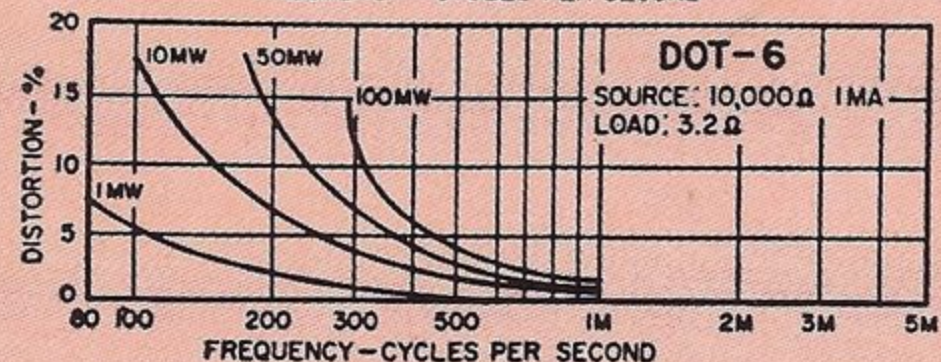
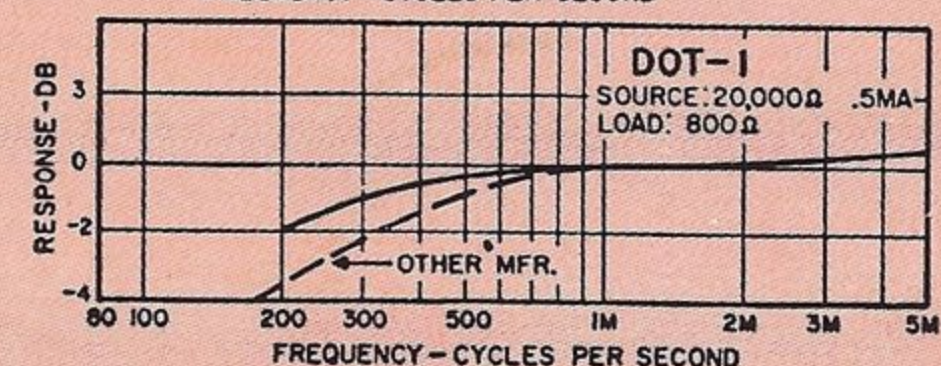
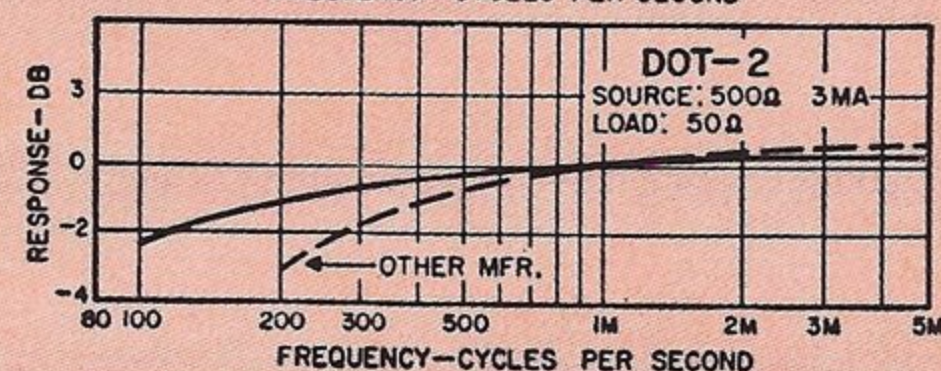
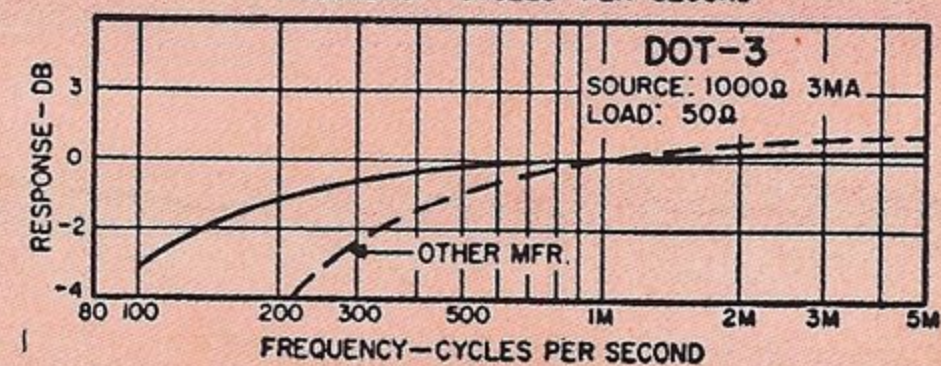
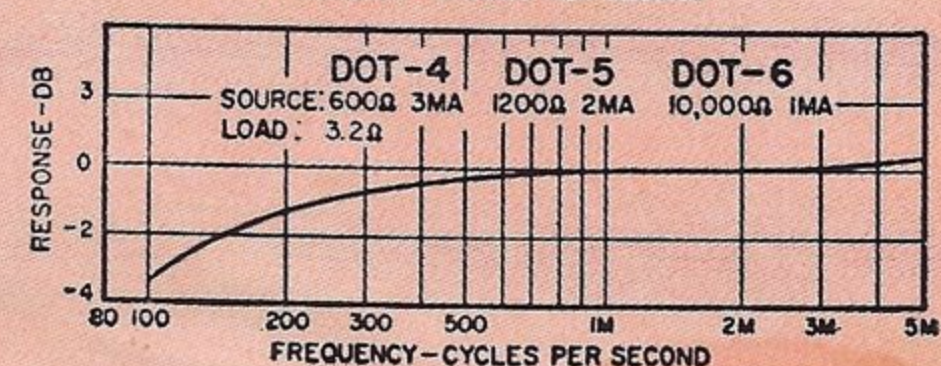
Other variations available.

1.3X ACTUAL SIZE



DOT CASE

Diameter $\frac{5}{16}$ "
Length $\frac{13}{32}$ "
Weight $\frac{1}{10}$ oz.



Type No.	Application	Level Mw.	Pri. Imp.	D.C. Ma. In Pri.	Sec. Imp.	Pri. Res.	Sec. Res.
DOT-1	Interstage	50	30,000 20,000	.5 .5	1200 800	850	125
DOT-2	Output	100	600 500	3 3	60 50	60	8
DOT-3	Output	100	1200 1000	3 3	60 50	115	8
DOT-4	Output	100	600	3	3.2	60	.5
DOT-5	Output	100	1200	2	3.2	115	.5
DOT-6	Output	100	10,000	1	3.2	1000	.7
DOT-7	Input	25	200,000	0	1000	3700	100
DOT-8	Reactor	3.5 Hys. at 2 Ma. DC, 630 ohms. DC res.					

*DOT units have been designed for transistor applications only . . . not for vacuum tube service **Pats. Pending

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CABLES: "ARLAB"