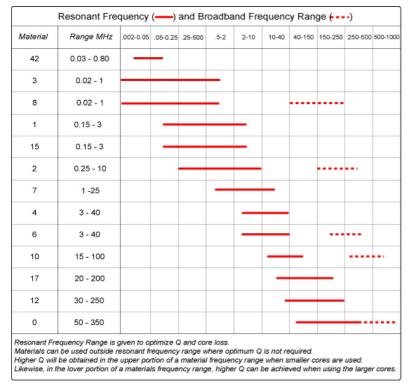


Toroid Iron Dust Powder Cores

for RF applications





Reference i.e.: T130-2

T = Toroidal Core

130 = Outer diameter dimension= 1.30 inch/33mm.

2 = Iron Powder Material Grade. (Red)

O.D. - is the outer diameter of iron powder toroid core I.D. - is the inside diameter of iron powder toroid core Height - is the height or the thickness of iron powder toroid core Material Grade - is the Iron Dust material type.



Material	Core Color	
1	Blue/Clear	
2	Red/Clear	
3	Gray/Clear	
4	Blue/White	
6	Yellow /Clear	
7	White/Clear	
8	Orange/Clear	
10	Black/Clear	
12	Green/White	
15	Red/White	
17	Blue/Yellow	
42	Blue/Red	
0	Tan/Tan	

Applications in function of core material grade

Materials: 2-4-6-7 Provide high Q up to 40MHz. Moderate wideband transformers in 200MHz-400MHz range. Most popular carbonyl iron on Amateur Radio and communication applications.

Materials: 1-3-8-15 High Q up to 1MHz. broadest band transformers in 50MHz-500MHz range. Highest carbonyl iron permeability.

Materials: 10-17 highest frequency carbonyl irons. Provide high Q up to 150MHz. typical material in cable TV applications. Moderate wideband transformers covering 400MHz-700MHz.

Material: 0 Non-magnetic material. Provides a solid form for winding coils due its excellent temperature stability. High Q at highest frequencies. Moderate band transformer covering a range from 600MHz to 1GHz.

Power Rating

Power Rating is defined as the product of the current flowing through a coil times the voltage being dropped across that coil.

For a given temperature rise due core loss, this product is independent of the number of turns wound on the core.

Core size Power Rating in Watts for 25° C temperature rise due core loss. Material grade 2 @ 1MHz.

Core Watts	Core Watts	Core Watts
T30 - 21	T80 - 125	T200 - 794
T37 - 26	T94 - 160	T300 - 1127
T44 - 37	T106 - 236	T400 - 2108
T50 - 49	T130 - 331	
T68 - 88	T157 - 515	