

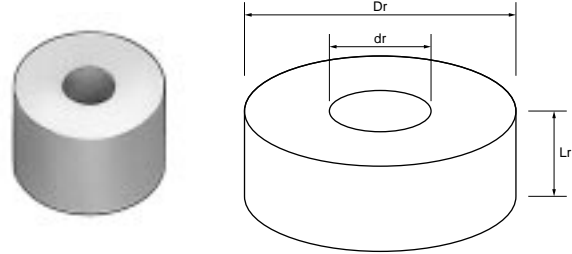
# Dielectric Resonators (RESOMICS®)



## Dielectric Resonator B Series (DRT Type)

### ■ Features

1. High Q of 18,000 at 10GHz
2. High dielectric constant : Er=27.9
3. Resonant frequency temperature coefficient can be chosen from 0 to 6ppm/(degree C). Tolerance of frequency temperature coefficient can be chosen from +-0.5, +-1 and +-2ppm/(degree C).
4. Resonant frequency can be chosen from 5.9 to 13.7 GHz.



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
DRT0510224B□□□00T	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	12.47~13.66 GHz
DRT0550244B□□□00T	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	11.39~12.47 GHz
DRT0600265B□□□00T	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	10.42~11.39 GHz
DRT0650288B□□□00T	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	9.55~10.42 GHz
DRT0710314B□□□00T	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	8.74~9.55 GHz
DRT0770341B□□□00T	7.69 ±0.05 mm	2.0 ±0.1 mm	3.41 ±0.05 mm	8.02~8.74 GHz
DRT0840371B□□□00T	8.36 ±0.05 mm	3.0 ±0.1 mm	3.71 ±0.05 mm	7.48~8.02 GHz
DRT0910403B□□□00T	9.09 ±0.05 mm	3.0 ±0.1 mm	4.03 ±0.05 mm	6.85~7.48 GHz
DRT0990438B□□□00T	9.88 ±0.05 mm	3.0 ±0.1 mm	4.38 ±0.05 mm	6.28~6.85 GHz
DRT1050460B□□□00T	10.50 ±0.05 mm	3.0 ±0.1 mm	4.60 ±0.05 mm	5.92~6.28 GHz

Codes for temperature coefficient of resonant frequency and the tolerance should be put into the three blank boxes of the above Part Numbers.  
Please see "Part Numbering" (ex.) 2.0±1.0ppm/°C : 20A.

### ■ Freq. Temp. Coefficient, Dielectric Constant and Q

#### • B series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)	Q (at 10GHz)
00	0	27.9±0.5	15,000 min.
20	2		
40	4		
60	6		