

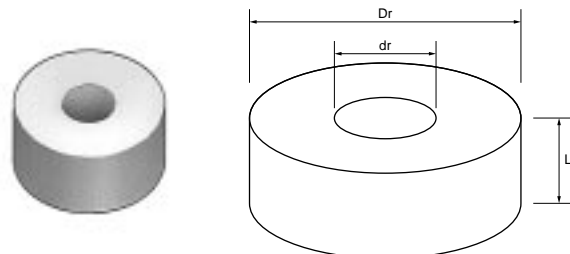
# Dielectric Resonators (RESOMICS®)



## Dielectric Resonator E Series (DRT Type)

### ■ Features

1. High Q of 24,000 at 10GHz
2. High dielectric constant :  $\epsilon_r=24.5$
3. Resonant frequency temperature coefficient can be chosen from 0 to 6ppm/(degree C). Tolerance of frequency temperature coefficient can be chosen from  $\pm 1$ ,  $\pm 2$ ppm/(degree C).
4. Resonant frequency can be Chosen from 8.4 to 19.5GHz.
5. E series is also fit for applications above 25GHz.  
Please consult us.



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
<b>DRT0360161E□□□00T</b>	3.62 ±0.05 mm	1.3 ±0.1 mm	1.61 ±0.05 mm	17.93~19.48 GHz
<b>DRT0390176E□□□00T</b>	3.94 ±0.05 mm	1.3 ±0.1 mm	1.76 ±0.05 mm	16.47~17.93 GHz
<b>DRT0430191E□□□00T</b>	4.28 ±0.05 mm	1.3 ±0.1 mm	1.91 ±0.05 mm	15.16~16.47 GHz
<b>DRT0460206E□□□00T</b>	4.65 ±0.05 mm	2.0 ±0.1 mm	2.06 ±0.05 mm	13.95~15.16 GHz
<b>DRT0510224E□□□00T</b>	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	12.82~13.95 GHz
<b>DRT0550244E□□□00T</b>	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	11.80~12.82 GHz
<b>DRT0600265E□□□00T</b>	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	10.85~11.80 GHz
<b>DRT0650288E□□□00T</b>	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	9.98~10.85 GHz
<b>DRT0710314E□□□00T</b>	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	9.18~9.98 GHz
<b>DRT0770341E□□□00T</b>	7.69 ±0.05 mm	2.0 ±0.1 mm	3.41 ±0.05 mm	8.44~9.18 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

#### • E series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)	Q (at 10GHz)
<b>00</b>	0	24.2±0.4	20,000 min.
<b>20</b>	2	24.4±0.4	
<b>40</b>	4	24.7±0.4	
<b>60</b>	6	24.9±0.4	