

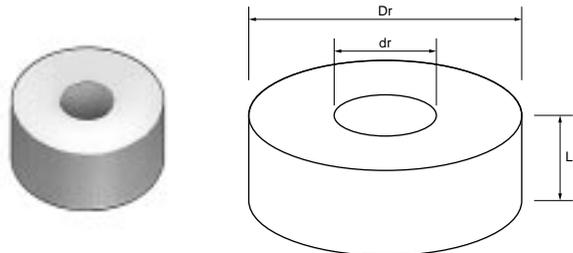
# Dielectric Resonators (RESOMICS®)



## Dielectric Resonator E Series (DRT Type)

### ■ Features

1. High Q of 24,000 at 10GHz
2. High dielectric constant : Er=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 +-1, +-2ppm/(degree C).
4. Dielectric resonator are chosen from the frequency range of 8.4 to 19.5GHz coaxial cylinder (DRT).
5. E-series is also fit for application above 25GHz. Please consult us.



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
DRT0360161E□□□00T	3.62 ±0.05 mm	1.3 ±0.1 mm	1.61 ±0.05 mm	17.93~19.48 GHz
DRT0390176E□□□00T	3.94 ±0.05 mm	1.3 ±0.1 mm	1.76 ±0.05 mm	16.47~17.93 GHz
DRT0430191E□□□00T	4.28 ±0.05 mm	1.3 ±0.1 mm	1.91 ±0.05 mm	15.16~16.47 GHz
DRT0460206E□□□00T	4.65 ±0.05 mm	2.0 ±0.1 mm	2.06 ±0.05 mm	13.95~15.16 GHz
DRT0510224E□□□00T	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	12.82~13.95 GHz
DRT0550244E□□□00T	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	11.80~12.82 GHz
DRT0600265E□□□00T	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	10.85~11.80 GHz
DRT0650288E□□□00T	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	9.98~10.85 GHz
DRT0710314E□□□00T	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	9.18~9.98 GHz
DRT0770341E□□□00T	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 boxes, three blank columns of the above Part Numbers.  
Please see the "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)
00	0	24.2±0.4	20,000 min.
20	2	24.4±0.4	
40	4	24.7±0.4	
60	6	24.9±0.4	