

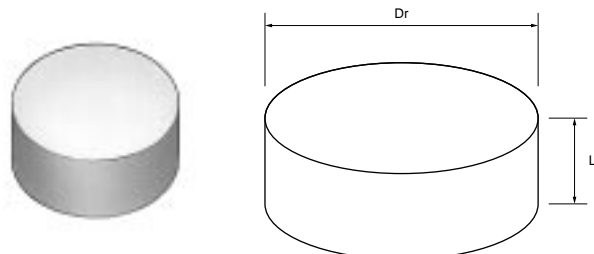
# Dielectric Resonators (RESOMICS®)

**muRata**

## Dielectric Resonator E Series (DRD 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 25.2GHz.
5. E series is also fit for applications above 25GHz.  
Please consult us.



Part Number	Outer Dia. (mm)	Thickness (mm)	Frequency Range
DRD0280125E□□□00T	2.82 ±0.05 mm	1.25 ±0.05 mm	23.17~25.15 GHz
DRD0310136E□□□00T	3.06 ±0.05 mm	1.36 ±0.05 mm	21.27~23.17 GHz
DRD0330148E□□□00T	3.33 ±0.05 mm	1.48 ±0.05 mm	19.48~21.27 GHz
DRD0360161E□□□00T	3.62 ±0.05 mm	1.61 ±0.05 mm	17.93~19.48 GHz
DRD0390176E□□□00T	3.94 ±0.05 mm	1.76 ±0.05 mm	16.47~17.93 GHz
DRD0430191E□□□00T	4.28 ±0.05 mm	1.91 ±0.05 mm	15.16~16.47 GHz
DRD0460206E□□□00T	4.65 ±0.05 mm	2.06 ±0.05 mm	13.95~15.16 GHz
DRD0510224E□□□00T	5.06 ±0.05 mm	2.24 ±0.05 mm	12.82~13.95 GHz
DRD0550244E□□□00T	5.50 ±0.05 mm	2.44 ±0.05 mm	11.80~12.82 GHz
DRD0600265E□□□00T	5.98 ±0.05 mm	2.65 ±0.05 mm	10.85~11.80 GHz
DRD0650288E□□□00T	6.50 ±0.05 mm	2.88 ±0.05 mm	9.98~10.85 GHz
DRD0710314E□□□00T	7.07 ±0.05 mm	3.14 ±0.05 mm	9.18~9.98 GHz
DRD0770341E□□□00T	7.69 ±0.05 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)
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	