# Dielectric Resonators (RESOMICS®)

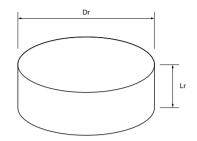


## **Dielectric Resonator B Series (DRD Type)**

#### ■ Features

- 1. High Q of 18,000 at 10GHz
- 2. High dielectric constant: Er=27.9
- 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 4.8 to 25.9GHz.





Part Number	Outer Dia. (mm)	Thickness (mm)	Frequency Range
DRD0260115B□□□00T	2.59 ±0.05 mm	1.15 ±0.05 mm	23.67~25.94 GHz
DRD0280125B□□□00T	2.82 ±0.05 mm	1.25 ±0.05 mm	21.75~23.67 GHz
DRD0310136B□□□00T	3.06 ±0.05 mm	1.36 ±0.05 mm	20.03~21.75 GHz
DRD0330148B□□□00T	3.33 ±0.05 mm	1.48 ±0.05 mm	18.40~20.03 GHz
DRD0360161B□□□00T	3.62 ±0.05 mm	1.61 ±0.05 mm	16.92~18.40 GHz
DRD0390176B□□□00T	3.94 ±0.05 mm	1.76 ±0.05 mm	15.53~16.92 GHz
DRD0430191B□□□00T	4.28 ±0.05 mm	1.91 ±0.05 mm	14.30~15.53 GHz
DRD0460206B□□□00T	4.65 ±0.05 mm	2.06 ±0.05 mm	13.19~14.30 GHz
DRD0510224B□□□00T	5.06 ±0.05 mm	2.24 ±0.05 mm	12.13~13.19 GHz
DRD0550244B□□□00T	5.50 ±0.05 mm	2.44 ±0.05 mm	11.15~12.13 GHz
DRD0600265B□□□00T	5.98 ±0.05 mm	2.65 ±0.05 mm	10.26~11.15 GHz
DRD0650288B□□□00T	6.50 ±0.05 mm	2.88 ±0.05 mm	9.44~10.26 GHz
DRD0710314B□□□00T	7.07 ±0.05 mm	3.14 ±0.05 mm	8.67~9.44 GHz
DRD0770341B□□□00T	7.69 ±0.05 mm	3.41 ±0.05 mm	7.97~8.67 GHz
DRD0840371B□□□00T	8.36 ±0.05 mm	3.71 ±0.05 mm	7.33~7.97 GHz
DRD0910403B□□□00T	9.09 ±0.05 mm	4.03 ±0.05 mm	6.75~7.33 GHz
DRD0990438B□□□00T	9.88 ±0.05 mm	4.38 ±0.05 mm	6.21~6.75 GHz
DRD1070477B□□□00T	10.75 ±0.05 mm	4.77 ±0.05 mm	5.70~6.21 GHz
DRD1170518B□□□00T	11.68 ±0.05 mm	5.18 ±0.05 mm	5.25~5.70 GHz
DRD1270563B□□□00T	12.70 ±0.05 mm	5.63 ±0.05 mm	4.83~5.25 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.)  $2.0\pm1.0ppm/^{\circ}C$ : 20A.

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

#### • B series

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

