

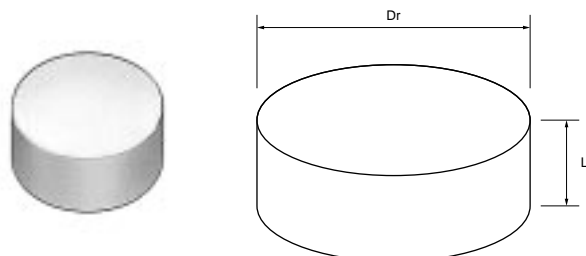
Dielectric Resonators (RESOMICS®)



Dielectric Resonator R Series (DRD Type)

■ Features

1. High Q of 15,000 at 10GHz
2. High dielectric constant : $\epsilon_r=30$
3. Resonant frequency temperature coefficient can be chosen from 0 to 6ppm/(degree C). Tolerance of the frequency temperature coefficient can be chosen from ± 0.5 , ± 1 and ± 2 ppm/(degree C).
4. Resonant frequency can be chosen from 4.6 to 24.2GHz.



Part Number	Outer Dia. (mm)	Thickness (mm)	Frequency Range
DRD0260115R□□□00T	2.59 ±0.05 mm	1.15 ±0.05 mm	22.1~24.2 GHz
DRD0280125R□□□00T	2.82 ±0.05 mm	1.25 ±0.05 mm	20.4~22.1 GHz
DRD0310136R□□□00T	3.06 ±0.05 mm	1.36 ±0.05 mm	18.9~20.4 GHz
DRD0330148R□□□00T	3.33 ±0.05 mm	1.48 ±0.05 mm	17.5~18.9 GHz
DRD0360161R□□□00T	3.62 ±0.05 mm	1.61 ±0.05 mm	16.2~17.5 GHz
DRD0390176R□□□00T	3.94 ±0.05 mm	1.76 ±0.05 mm	15.0~16.2 GHz
DRD0430191R□□□00T	4.28 ±0.05 mm	1.91 ±0.05 mm	13.5~15.0 GHz
DRD0460206R□□□00T	4.65 ±0.05 mm	2.06 ±0.05 mm	12.6~13.5 GHz
DRD0510224R□□□00T	5.06 ±0.05 mm	2.24 ±0.05 mm	11.6~12.6 GHz
DRD0550244R□□□00T	5.50 ±0.05 mm	2.44 ±0.05 mm	10.8~11.6 GHz
DRD0600265R□□□00T	5.98 ±0.05 mm	2.65 ±0.05 mm	9.7~10.8 GHz
DRD0650288R□□□00T	6.50 ±0.05 mm	2.88 ±0.05 mm	9.0~9.7 GHz
DRD0710314R□□□00T	7.07 ±0.05 mm	3.14 ±0.05 mm	8.3~9.0 GHz
DRD0770341R□□□00T	7.69 ±0.05 mm	3.41 ±0.05 mm	7.7~8.3 GHz
DRD0840371R□□□00T	8.36 ±0.05 mm	3.71 ±0.05 mm	6.9~7.7 GHz
DRD0910403R□□□00T	9.09 ±0.05 mm	4.03 ±0.05 mm	6.4~6.9 GHz
DRD0990438R□□□00T	9.88 ±0.05 mm	4.38 ±0.05 mm	5.9~6.4 GHz
DRD1070477R□□□00T	10.75 ±0.05 mm	4.77 ±0.05 mm	5.5~5.9 GHz
DRD1170518R□□□00T	11.68 ±0.05 mm	5.18 ±0.05 mm	5.0~5.5 GHz
DRD1270563R□□□00T	12.70 ±0.05 mm	5.63 ±0.05 mm	4.6~5.0 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.) $2.0 \pm 1.0 \text{ ppm}/^\circ\text{C} : 20\text{A}$.

■ Freq. Temp. Coefficient, Dielectric Constant and Q

• R series

Characteristic Code	Frequency Temperature Coefficient (τ_f) (ppm/ $^\circ\text{C}$)	Dielectric Constant (ϵ_r)	Q (at 10GHz)
00	0	29.7±0.8	12,000 min.
20	2	30.3±0.8	
40	4	30.9±0.8	
60	6	31.5±0.8	