

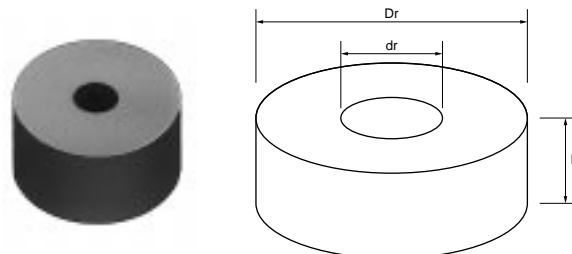
Dielectric Resonators (RESOMICS®)



Dielectric Resonator V Series (DRT Type)

■ Features

1. High Q of 12,000 at 10GHz
2. High dielectric constant : Er=34
3. Resonant frequency temperature coefficient can be chosen from 0 to 8ppm/(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 2.9 to 12.5GHz.



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
DRT0510224V□□□00T	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	11.41~12.52 GHz
DRT0550244V□□□00T	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	10.42~11.42 GHz
DRT0600265V□□□00T	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	9.54~10.42 GHz
DRT0650288V□□□00T	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	8.74~9.54 GHz
DRT0710314V□□□00T	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	8.00~8.74 GHz
DRT0770341V□□□00T	7.69 ±0.05 mm	2.0 ±0.1 mm	3.41 ±0.05 mm	7.34~8.00 GHz
DRT0840371V□□□00T	8.36 ±0.05 mm	3.0 ±0.1 mm	3.71 ±0.05 mm	6.85~7.34 GHz
DRT0910403V□□□00T	9.09 ±0.05 mm	3.0 ±0.1 mm	4.03 ±0.05 mm	6.27~6.85 GHz
DRT0990438V□□□00T	9.88 ±0.05 mm	3.0 ±0.1 mm	4.38 ±0.05 mm	5.74~6.27 GHz
DRT1070477V□□□00T	10.75 ±0.05 mm	4.0 ±0.1 mm	4.77 ±0.05 mm	5.34~5.74 GHz
DRT1170518V□□□00T	11.68 ±0.05 mm	4.0 ±0.1 mm	5.18 ±0.05 mm	4.89~5.34 GHz
DRT1270563V□□□00T	12.70 ±0.05 mm	4.0 ±0.1 mm	5.63 ±0.05 mm	4.48~4.89 GHz
DRT1380613V□□□00T	13.81 ±0.05 mm	4.0 ±0.1 mm	6.13 ±0.05 mm	4.10~4.48 GHz
DRT1500666V□□□00T	15.02 ±0.05 mm	4.0 ±0.1 mm	6.66 ±0.05 mm	3.76~4.10 GHz
DRT1630724V□□□00T	16.33 ±0.05 mm	4.0 ±0.1 mm	7.24 ±0.05 mm	3.45~3.76 GHz
DRT1780788V□□□00T	17.76 ±0.05 mm	4.0 ±0.1 mm	7.88 ±0.05 mm	3.17~3.45 GHz
DRT1930856V□□□00T	19.31 ±0.05 mm	4.0 ±0.1 mm	8.56 ±0.05 mm	2.91~3.17 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

• V series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)	Q (at 10GHz)
00	0	33.5±0.5	10,000 min.
20	2	33.9±0.5	
40	4	34.3±0.5	
60	6	34.7±0.5	
80	8	35.1±0.5	