

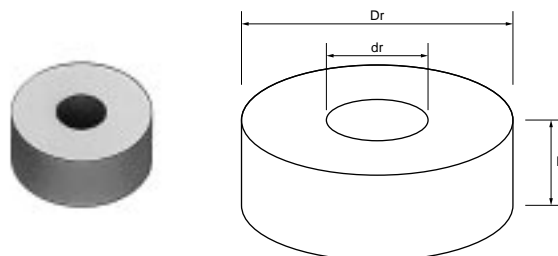
Dielectric Resonators (RESOMICS®)



Dielectric Resonator M Series (DRT Type)

■ Features

1. High Q of 7,000 at 7GHz
2. High dielectric constant : $\epsilon_r=38$
3. 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 2.5 to 11.5GHz.



Part Number	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)	Frequency Range
DRT0510224M□□□00T	5.06 ±0.05 mm	2.0 ±0.1 mm	2.24 ±0.05 mm	10.45~11.45 GHz
DRT0550244M□□□00T	5.50 ±0.05 mm	2.0 ±0.1 mm	2.44 ±0.05 mm	9.69~10.45 GHz
DRT0600265M□□□00T	5.98 ±0.05 mm	2.0 ±0.1 mm	2.65 ±0.05 mm	8.91~9.69 GHz
DRT0650288M□□□00T	6.50 ±0.05 mm	2.0 ±0.1 mm	2.88 ±0.05 mm	8.20~8.91 GHz
DRT0710314M□□□00T	7.07 ±0.05 mm	2.0 ±0.1 mm	3.14 ±0.05 mm	7.54~8.20 GHz
DRT0770341M□□□00T	7.69 ±0.05 mm	2.0 ±0.1 mm	3.41 ±0.05 mm	6.93~7.54 GHz
DRT0840371M□□□00T	8.36 ±0.05 mm	3.0 ±0.1 mm	3.71 ±0.05 mm	6.38~6.93 GHz
DRT0910403M□□□00T	9.09 ±0.05 mm	3.0 ±0.1 mm	4.03 ±0.05 mm	5.87~6.38 GHz
DRT0990438M□□□00T	9.88 ±0.05 mm	3.0 ±0.1 mm	4.38 ±0.05 mm	5.40~5.87 GHz
DRT1070477M□□□00T	10.75 ±0.05 mm	4.0 ±0.1 mm	4.77 ±0.05 mm	4.96~5.40 GHz
DRT1170518M□□□00T	11.68 ±0.05 mm	4.0 ±0.1 mm	5.18 ±0.05 mm	4.56~4.96 GHz
DRT1270563M□□□00T	12.70 ±0.05 mm	4.0 ±0.1 mm	5.63 ±0.05 mm	4.20~4.56 GHz
DRT1380613M□□□00T	13.81 ±0.05 mm	4.0 ±0.1 mm	6.13 ±0.05 mm	3.86~4.20 GHz
DRT1500666M□□□00T	15.02 ±0.05 mm	4.0 ±0.1 mm	6.66 ±0.05 mm	3.55~3.86 GHz
DRT1630724M□□□00T	16.33 ±0.05 mm	4.0 ±0.1 mm	7.24 ±0.05 mm	3.27~3.55 GHz
DRT1780788M□□□00T	17.76 ±0.05 mm	4.0 ±0.1 mm	7.88 ±0.05 mm	3.00~3.27 GHz
DRT1930856M□□□00T	19.31 ±0.05 mm	4.0 ±0.1 mm	8.56 ±0.05 mm	2.76~3.00 GHz
DRT2100931M□□□00T	21.00 ±0.05 mm	4.0 ±0.1 mm	9.31 ±0.05 mm	2.54~2.76 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

• M series

Characteristic Code	Frequency Temperature Coefficient (τf) (ppm/°C)	Dielectric Constant (εr)		Q (at 7GHz)
		①	②	
00	0	38.5±1.0	37.7±1.0	7,400 min.
20	2	38.7±1.0	37.9±1.0	7,200 min.
40	4	38.9±1.0	38.2±1.0	7,100 min.
60	6	39.2±1.0	38.4±1.0	7,000 min.

① : DRT051-DRT099 Type

② : DRT107-DRT210 Type