

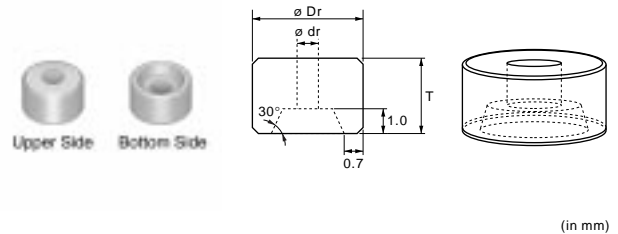
Dielectric Resonators (RESOMICS®)



Dielectric Resonator M Series (DRY Type)

■ Features

1. Designed for local oscillators for BS/CS LNBS.
2. Lower price compared with support glued type.
3. A high unloaded Q resonator using M series (Er=38).
4. Available with an outer diameter from phi 4.8mm, phi 5.06mm and phi 5.6mm.
5. Available with a frequency temperature coefficient from 0 to 10ppm/(degree C) and its tolerance from +-0.5, +-1.0 and +-2.0ppm/(degree C).
6. Angle of support fixed at 30 degree and the height at 1.0mm.
7. Excellent spurious characteristics with hole.



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Part Number	Resonant Frequency (MHz)	Outer Dia. (mm)	Inner Dia. (mm)	Thickness (mm)
DRY048□□□□□M□□□□00R	10570 to 11690	4.80 ±0.05	2.00 ±0.1	2.40 to 3.33 (Typical)
DRY051□□□□□M□□□□00R	10060 to 10820	5.06 ±0.05	2.00 ±0.1	2.70 to 3.41 (Typical)
DRY056□□□□□M□□□□00R	9280 to 9880	5.60 ±0.05	2.00 ±0.1	2.90 to 3.51 (Typical)

Part Number: Five blank boxes are filled with resonant frequency codes.
 Three blank boxes are filled with temperature coefficient of resonant frequency.
 Please see Part Numbering for details.
 Standard tolerance of resonant frequency is ±30MHz.
 Resonant Frequency: Please consult our sales representatives or engineers regarding products with other frequencies.

■ Freq. Temp. Coefficient, Dielectric Constant and Q

• M series

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

* Q value at 7GHz is only for information.
 Actual assurance of Q is done by unloaded Q values in our standard test fixture.