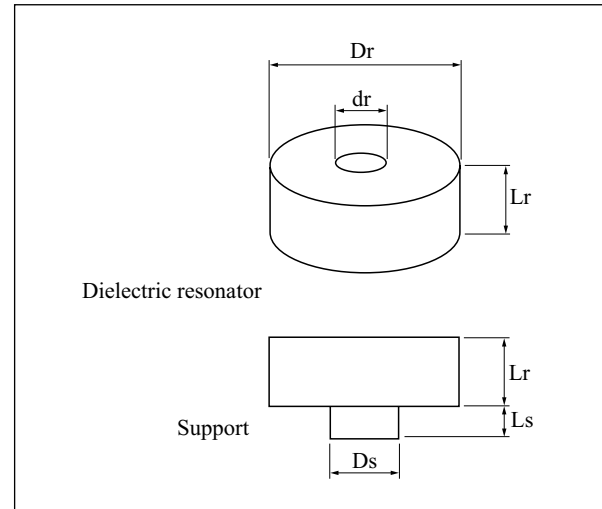


FEATURES

- High Q of 7,500min. At 4GHz
- High dielectric constant $\epsilon_r \approx 46$.
- The resonant frequency temperature coefficient can be chosen from 0 to 6 ppm/ °C.
- These resonators are suitable for C band oscillator.

| Frequency Temperature Coefficient (τ_f) | Dielectric Constant (ϵ_r) | $Q \times f_0$ (at 4GHz) |
|--|---|-----------------------------|
| 0 (ppm/ °C) 3 (ppm/ °C) 6 (ppm/ °C) | 46 ± 0.5 | $> 30,000$ |

DIMENSION



SPECIFICATION

| Part Number | Dielectric Resonator | | Support | | Resonant Frequency Range (GHz) |
|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------------|
| | $Dr \pm 0.05$ (mm) | $Lr \pm 0.05$ (mm) | $Ds \pm 0.05$ (mm) | $Ls \pm 0.05$ (mm) | |
| KHR0975A01 | 5.60 | 2.00 | 3.80 | 1.40 | 9.35 to 9.85 |
| KHR1060A01 | 4.70 | 2.20 | 3.20 | 1.00 | 10.20 to 10.80 |
| KHR1075A01 | 4.70 | 2.00 | 3.20 | 1.00 | 10.50 to 11.00 |
| KHR1130A01 | 4.70 | 1.70 | 3.20 | 1.00 | 11.00 to 11.50 |

- The cylinder type resonator with a hole improves spurious response without degrading Q.
- The support, which has a low dielectric constant and high Q, minimizes induced losses to the resonator.