

KHR0975A01/1060A01 KHR1075A01/1130A01

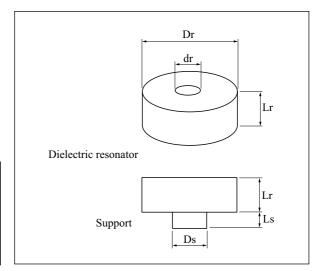
DIELECTRIC RESONATOR

FEATURES

- · High Q of 7,500min. At 4 GHz.
- · High dielectric constant $\varepsilon_{\Gamma} = 46$.
- \cdot The resonant frequency temperature coefficient can be chosen from 0 to 6 ppm/ $^{\circ}\mathrm{C}.$
- · These resonators are suitable for C band oscillator.

Frequency Temperature Coefficient (τ_f)	Dielectric Constant $(\varepsilon_{\mathbf{r}})$	$\begin{array}{c} \rm Q \times f_{o} \\ \rm (at~4 GHz) \end{array}$
6 (ppm/ ℃) 3 (ppm/ ℃) 0 (ppm/ ℃)	46 ±0.5	> 30,000

DIMENSION



SPECIFICATION

Part Number	Dielectric Resonator		Support		Resonant Frequency Range
	Dr ±0.05 (mm)	Lr ±0.05 (mm)	Ds ± 0.05 (mm)	Ls ±0.05 (mm)	(GHz)
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 reesonator 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.