

DIELECTRIC RESONATOR



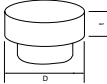
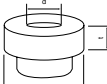
FEATURES

- High dielectric constant
- High Q-value
- Tight tolerance of Tcf(Temperature coefficient of frequency)
- Long term stability
- TE01 mode

APPLICATIONS

- Satellite communication, satellite broadcasting systems
- Microwave filters
- TVRO/GPS

SPECIFICATIONS

ITEMS		REMARKS	
Properties of Dielectric Materials	ϵ_r	37	
	Q.f	>40,000	
	$\tau f(\text{ppm}/^\circ\text{C})$	2 ± 2	-3.5 $^\circ\text{C}$ ~ +85 $^\circ\text{C}$
	Deniry(g/cm^3)	4.5	
Shapes	Disk-type 	For Ku-Band $4.0 \leq D \leq 7.0$ $t < 4.0$ $f_0 = 9.0 \sim 11.5\text{GHz}$	· D&t could be adjusted by f_0 . · Support is also available
	Cylinder-type 	For C-Band $10.0 \leq D \leq 13.0$ $2.0 \leq d \leq 5.0$ $t < 6.0$ $f_0 = 4.5 \sim 5.5\text{GHz}$	· D, d&t could be adjusted by f_0 . · Support is also available
Specifications	DFRE5N1125YA	$f_0 = 11.25\text{GHz}$	For Ku-Band Resonant frequency could be adjusted by user's spec.
	DFRE5N1060YA	$f_0 = 10.60\text{GHz}$	
	DFRE5N1036YA	$f_0 = 10.36\text{GHz}$	
	DFRE5N0975YA	$f_0 = 9.75\text{GHz}$	
	DFRE11N515YA	$f_0 = 5.15\text{GHz}$	For C-Band