



# Dielectric

## TE<sub>016</sub> Mode Dielectric Resonators / 介质谐振器

### ► Features

- High Q Value
- Easy to control  $\tau f$
- Many kinds of material with various dielectric constants

### ► Applications

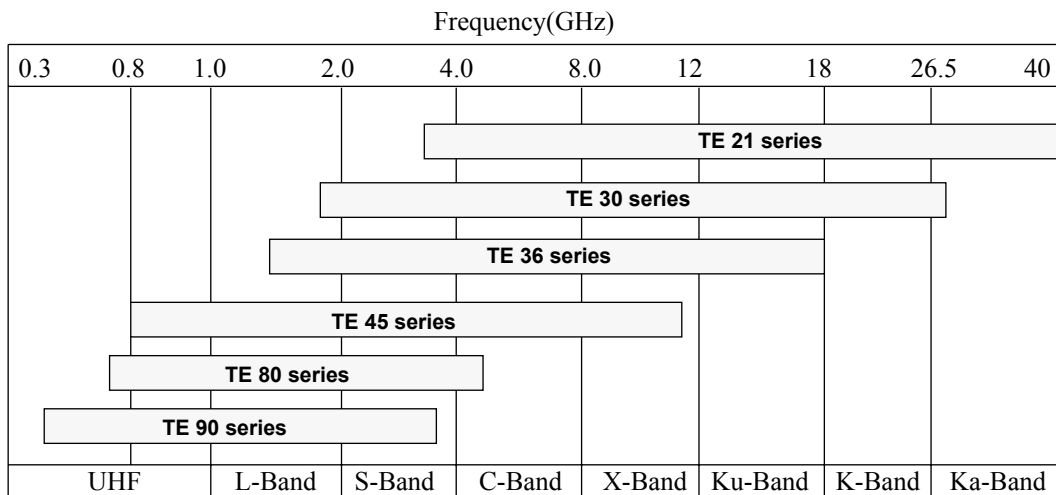
- Cellular Base Station Filter, Duplexer & Combiners
- PCS/PCN Filters, Duplexer & Combiners
- Police Radar Detectors
- LMDS/MMDS Wireless Cable TV
- Automobile Collision Avoidance Sensors
- Dielectric Resonator Antennas
- LNB



### ► TE Resonator Available Range by Every Material

Material Series	Dielectric Constant	Fo Q(1/tanδ)	Temperature Coefficient (PPM/°C)	Insulation Resistance (Ω-cm)	Application Frequency Range	Application Range
TE21	19~22	6,000@10GHz	0 ± 3	>10 <sup>14</sup>	Refer Frequency Chat	Refer Frequency Chat
TE30	29~30	15,000@10GHz	0 ± 6	>10 <sup>14</sup>		
TE36	35~37	10,000@4GHz	0 ± 3	>10 <sup>14</sup>		
TE45	44~46	10,000@4GHz	0 ± 6	>10 <sup>14</sup>		
TE80	79~81	7,000@1GHz	0 ± 6	>10 <sup>14</sup>		
TE90	89~91	7,000@1GHz	0 ± 6	>10 <sup>14</sup>		

### ► Dielectric TE<sub>016</sub> Mode Frequency Chart





# Dielectric

## ► How to Order

TE	36	10	A	S
❶	❷	❸	❹	❺

❶ Product Type

❷ Dielectric Constant

❸ Center Frequency (GHz)

❹ Configuration

Code	Configuration
A	With hole
B	Without hole

❺ Construction

Code	Construction
S	Support
	Without support

