

### Crystal Parameters

Parameters	Ceramic Materials	Size (mm)	Specification	Remarks
d <sub>33</sub>	5 <sup>#</sup>	JYY5R2.8x5.0	≥350×10 <sup>-12</sup> C/N	Two ends of Cylinder have the silver alloy
Δf			≥70 KHz	
C			6.5 – 8.0 PF	

Parameters	Ceramic Materials	Size (mm)	Specification	Remarks
d <sub>33</sub>	511 <sup>#</sup>	JYY511A-5.0×10.0	Ave≥370×10 <sup>-12</sup> C/N Min≥360×10 <sup>-12</sup> C/N	Two ends of Cylinder have the silver alloy
Δf			Ave≥40KHz Min≥37KHz	
C			13 – 18PF	

Parameters	Ceramic Materials	Size (mm)	Specification	Remarks
d <sub>33</sub>	554 <sup>#</sup>	JYY554R2.15x4.5	Ave≥287×10 <sup>-12</sup> C/N Min≥280×10 <sup>-12</sup> C/N	Two ends of Cylinder have the silver alloy
Δf			≥35KHz	
C			4.8 – 5.3PF	

Notes: Red means positive electrode, white negative electrode