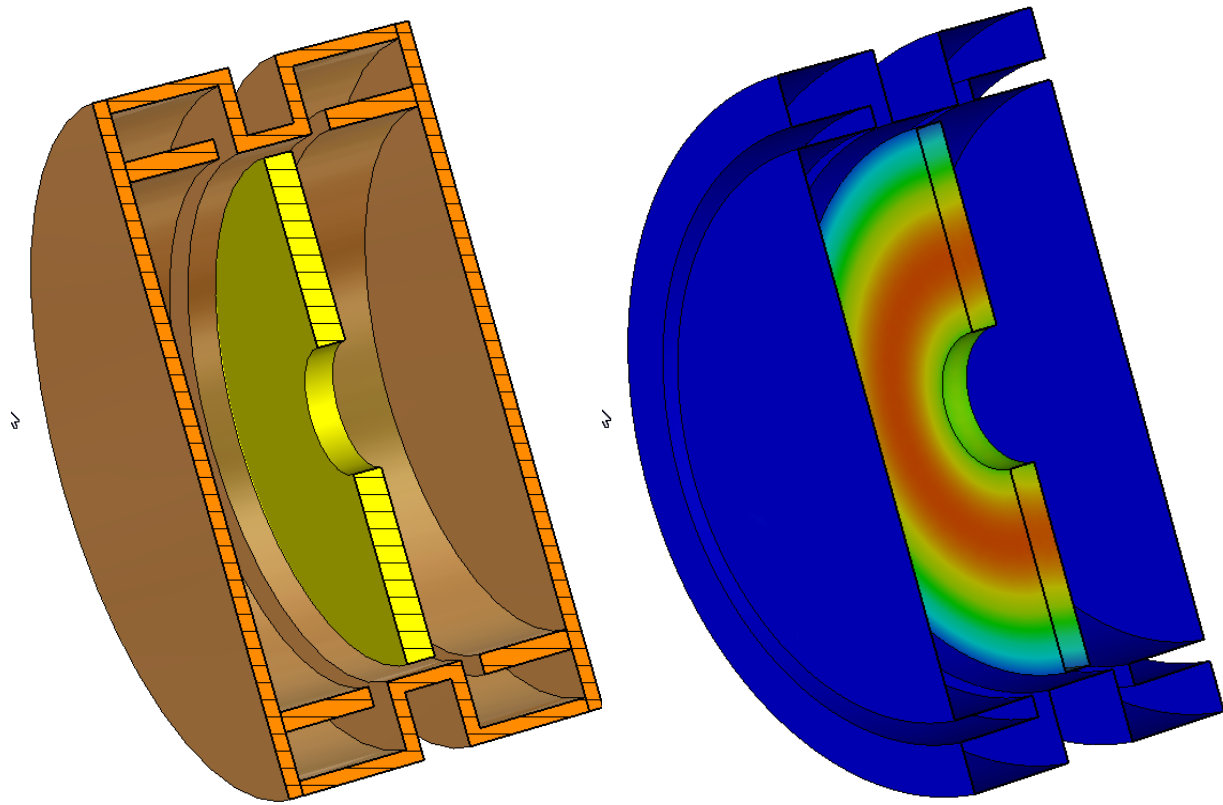


4 inch ceramics



$\epsilon_s = 9.8$

$F = 2381.5 \text{ MHz}$

Q-Factor Calculation

H-Field data: Mode 11

Material/Solid	Conductivity	Mu	Loss/W	Loss/%	Q
**Cond. Enclosure**	5.8000e+07	1	0.0000e+00	0	
PEC	5.8000e+07	1	2.8122e+05	18.7	5.3206e+04
**Sum of Surface Losses**			2.8122e+05	18.7	5.3206e+04
**Volume Losses**			1.2202e+06	81.3	1.2262e+04
**Sum**			1.5014e+06		9.9655e+03

$\epsilon_s = 9.4$

$F = 2389.0 \text{ MHz}$

Q-Factor Calculation

H-Field data: Mode 11

Material/Solid	Conductivity	Mu	Loss/W	Loss/%	Q
**Cond. Enclosure**	5.8000e+07	1	0.0000e+00	0	
PEC	5.8000e+07	1	2.7772e+05	18.6	5.4046e+04
**Sum of Surface Losses**			2.7772e+05	18.6	5.4046e+04
**Volume Losses**			1.2119e+06	81.4	1.2386e+04
**Sum**			1.4896e+06		1.0076e+04