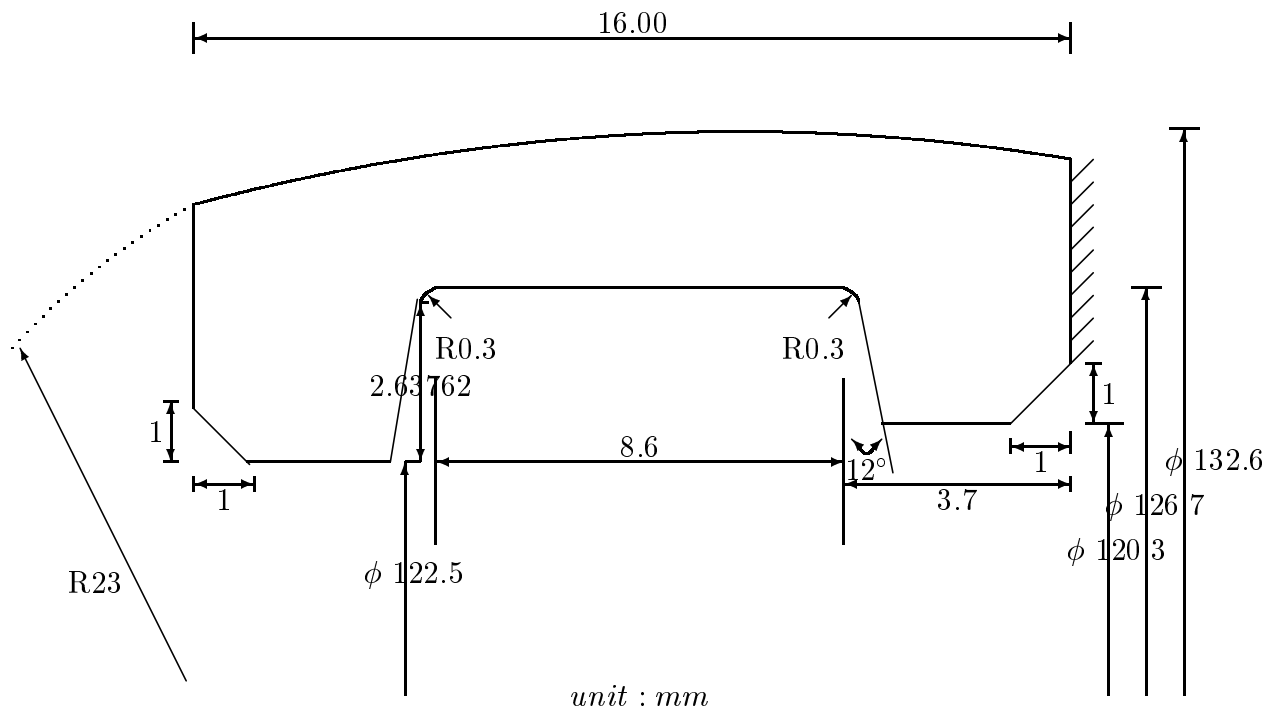


程式15 BEASY-CRACK for V-band



1. Plot the geometry of V-band.
2. Determine the stress intensity factor of the crack in V-band
3. Predict the path of crack propagation under fatigue loading
4. Please show
 - (1) BEM mesh
 - (2) Constraint(boundary condition)
 - (3) Deformed plot
 - (4) Stress distribution
 - (5) Max and min principal stress plot on undeformed geometry
 - (6) Max and min principal stress plot on deformed geometry
 - (7) The path of crack propagation
5. Comparison of other methods
 - (1) FEM by using NASTRAN
 - (2) Experimental results(failure mode,failure positions and crack path)
 - (3) Dual BEM

References

- [1] S. W. Chyuan, J. H. Lin, J. T. Chen and D. C. Liu, 2000, Dual boundary element analysis for fatigue behavior of missile structure, J. Chinese Institute of Engineers, Vol.23, No.3, pp.339-348. (SCI and EI)