3.   Feature Control Frame Details

Geometry Control Tools are applied to individual part features by placing them in Feature Control Frames:
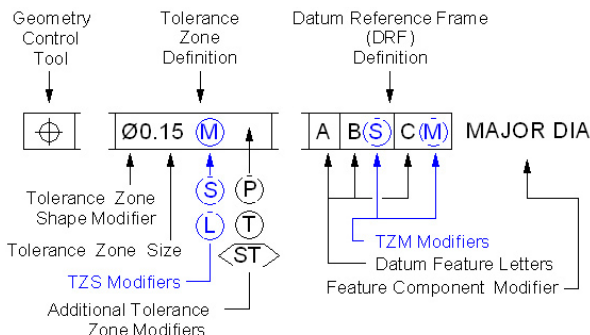

Figure 3/1   Feature Control Frame Anatomy

Feature Control Frames can be either "read" or "decoded":

Reading: Flatness within 0.1 mm

Decoding: Flatness requires every point on the considered feature to lie within a "slab-like" tolerance zone of thickness 0.1 mm, unconstrained by a DRF.

Reading: Position within a diameter of 0.5 mm at MMC relative to A,B RFS and C at MMC.

Decoding: Position requires the bounded axis of the considered feature to lie within a "cylindrical" tolerance zone of diameter 0.5 mm at MMC, expanding by as much as 0.4 mm as the considered feature departs from MMC toward LMC, oriented and located by Basic dimensions relative to a DRF established using Datum Feature A, Datum Feature B simulated regardless of its size, and Datum Feature C simulated at its Virtual MMC.