

Contact Flange

The Contact Flange geometry is used where high power and low VSWR are required. The flanges are machined with a raised inner edge that guarantees a reliable connection of the surfaces. The design also uses a raised outer edge to limit the flexing of the flange to a preset force value. The center area of the flange is an undercut area that prevents any distortions around the bolt holes from creating uneven forces or engagement of the electrical surfaces.

Below is a representative geometry from a WR650 Contact Flange that shows the inner edge is 0.007 +/-0.001" higher to guarantee the inner surface makes electrical contact, then a 0.028" depression around the bolt holes to prevent any unintended mechanical interference to prevent total engagement.

