**NOTATION** | **DESCRIPTION** | **DIMENSION (mm)**  
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A | Bottom of housing lid to top of vacuum window holder | 3.81  
B | Bottom of housing lid to top of vacuum window (0.5 mm vac. widow) | 4.31  
C | Bottom of radiation lid to bottom of brass washer* | 8.436  
D | Bottom of radiation lid to top of radiation window* (0.2 mm rad. window) | 9.016 -0.2**  
E | Bottom of radiation lid to bottom of housing lid* | 5.591 -0.5**  
F | Top of vacuum window to bottom of radiation window* | 1.2112 -0.7**  
G | Diameter of brass washer opening | 6.00  
H | Diameter of brass washer | 30.00  
I | Thickness of brass washer | .380  
J | Clear Aperture of vacuum window | 11.684  
K | Diameter of recessed flat | 38.00  
L | Inner diameter of adapter ring | 28.98  

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*HEIGHT ASSUMED TO HAVE THREADING SET WITH SHOULDER OF WINDOW RING FLUSH WITH TOP OF RADIATION LID.  
**VARIATION DUE TO THERMAL CONTRACTION AND O-RING COMPRESSION AS A RESULT OF COOL-DOWN.

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DIMENSIONS ARE IN MM  
FINISH  
MATERIAL  
TOLERANCES ARE FRACTIONS

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APPROVALS | DATE  
--- | ---  
CHKO | 5/8/2012  
ENG |  
REL |  
FINISH |  

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LOW WORKING DISTANCE DIMENSIONS  
FILENAME: DOC-134  
MONTANA INSTRUMENTS CORPORATION  
BOZEMAN, MT  

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REVISIONS  
DESCRIPTION | DATE | APPROVED  
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DO NOT SCALE DRAWING  
NEXT ASSY USED ON  
SCALE  
DRAWING NO.  
REV  
REA NO.  
SHEET  

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