FERMILAB Technical Division

QUALITY CONTROL REPORT

DATE=5/15/2009 TIME=10:28:52 AM

PART NAME : PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9AES008 v4s IR
REV NUMBER :
SER NUMBER :
STATS COUNT : 1

440004-n
FNAL 1.3GHZ TESLA
RF CAVITY
ASSEMBLY
@ 000 rotation

'Inspected by ' : Robert Riley
'Cavity Number' : TB9AES008
' ' : 0905140632

BEAM PIPE FLANGE NEAR

MM	DIM LOC1= LOCATION OF PLANE PL-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	0.000	0.000	0.000	0.200	0.200	0.000
V	-0.002	-1.000	0.002			
FL	0.000	0.047	0.047	0.200	0.000	0.000

// MM	DIM PARL1= PARALLEL OF PLANE PL-NEAR-END-FLANGE,RFS TO WORKPLANE YMINUS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.389	0.389	0.200	0.000	0.189

DEG	DIM ANGL1= 3D ANGLE (COMPLEMENT) FROM PLANE PL-NEAR-END-FLANGE TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.187	0.187	0.100	0.100	0.087

MM	DIM LOC2= LOCATION OF CIRCLE CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.234	-0.234	0.200	0.200	0.034
Z	0.000	0.205	0.205	0.200	0.200	0.005
D	140.000	140.010	0.010	0.300	0.300	0.000
RN	0.000	0.009	0.009	0.200	0.000	0.000

MM	DIM DIST03= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE TO PLANE PL-NEAR-END-FLANGE-ORING PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	0.998	-0.002	0.100	0.100	0.000

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True Position of 6 Bolt Holes on the
NEAR BEAM PIPE FLANGE
to flange

⊕ MM	DIM TP NBPF BH1= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 015						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.990	-0.010				
PA	15.000	13.443	-1.557				
DF	8.800	8.755	-0.045	0.300	0.300		0.000
TP	RFS		3.260	0.300		0.000	2.960
RN	0.000	0.027	0.027	0.300	0.000		0.000

⊕ MM	DIM TP NBPF BH2= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 045						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.780	-0.220				
PA	45.000	43.594	-1.406				
DF	8.800	8.763	-0.037	0.300	0.300		0.000
TP	RFS		2.972	0.300		0.000	2.672
RN	0.000	0.010	0.010	0.300	0.000		0.000

⊕ MM	DIM TP NBPF BH3= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 075						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.698	-0.302				
PA	75.000	73.507	-1.492				
DF	8.800	8.761	-0.039	0.300	0.300		0.000
TP	RFS		3.176	0.300		0.000	2.876
RN	0.000	0.010	0.010	0.300	0.000		0.000

⊕ MM	DIM TP NBPF BH4= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 105						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.923	-0.077				
PA	105.000	103.569	-1.431				
DF	8.800	8.757	-0.043	0.300	0.300		0.000
TP	RFS		2.999	0.300		0.000	2.699
RN	0.000	0.013	0.013	0.300	0.000		0.000

⊕ MM	DIM TP NBPF BH5= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 135						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.864	-0.136				
PA	135.000	133.739	-1.261				
DF	8.800	8.761	-0.039	0.300	0.300		0.000
TP	RFS		2.652	0.300		0.000	2.352
RN	0.000	0.008	0.008	0.300	0.000		0.000

⊕ MM	DIM TP NBPF BH6= TRUE POSITION OF CIRCLE CR-NEARFLANGE BH 165						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.980	-0.020				
PA	165.000	163.745	-1.255				
DF	8.800	8.761	-0.039	0.300	0.300		0.000
TP	RFS		2.627	0.300		0.000	2.327
RN	0.000	0.012	0.012	0.300	0.000		0.000

BEAM PIPE FLANGE FAR

MM DIM LOC3= LOCATION OF PLANE PL-FAR-END

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1247.400	1251.615	4.215	3.000	3.000	1.215
V	-0.001	1.000	0.001			
FL	0.000	0.015	0.015	0.200	0.000	0.000

// MM DIM PARL2= PARALLEL OF PLANE PL-FAR-END,RFS TO WORKPLANE YPLUS EXTEND=0.000

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.197	0.197	0.200	0.000	0.000

DEG DIM ANGL2= 3D ANGLE (COMPLEMENT) FROM PLANE PL-FAR-END TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.094	0.094	0.100	0.100	0.000

MM DIM LOC4= LOCATION OF CIRCLE CR-FAR-END

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.079	-0.079	0.200	0.200	0.000
Z	0.000	0.128	0.128	0.200	0.200	0.000
D	140.000	140.021	0.021	0.300	0.300	0.000
RN	0.000	0.007	0.007	0.200	0.000	0.000

MM DIM DIST04= 2D DISTANCE FROM PLANE PL-FAR-END TO PLANE PL-FAR-END-FLANGE-ORING PAR TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	0.946	-0.054	0.100	0.100	0.000

True Position of 6 Bolt Holes on the
FAR BEAM PIPE FLANGE
to flange

MM DIM TP FBPF BH1= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 015

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	60.509	0.509				
PA	15.000	14.612	-0.388				
DF	8.800	8.772	-0.028	0.300	0.300		0.000
TP	RFS		1.305	0.300		0.000	1.005
RN	0.000	0.037	0.037	0.300	0.000		0.000

MM DIM TP FBPF BH2= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 045

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	60.102	0.102				
PA	45.000	44.503	-0.497				
DF	8.800	8.755	-0.045	0.300	0.300		0.000
TP	RFS		1.061	0.300		0.000	0.761
RN	0.000	0.015	0.015	0.300	0.000		0.000

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⊕ MM	DIM TP FBPF BH3= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 075						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	60.184	0.184				
PA	75.000	74.374	-0.626				
DF	8.800	8.753	-0.047	0.300	0.300		0.000
TP	RFS		1.365	0.300		0.000	1.065
RN	0.000	0.024	0.024	0.300	0.000		0.000

⊕ MM	DIM TP FBPF BH4= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 105						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	60.164	0.164				
PA	105.000	104.339	-0.661				
DF	8.800	8.757	-0.043	0.300	0.300		0.000
TP	RFS		1.425	0.300		0.000	1.125
RN	0.000	0.016	0.016	0.300	0.000		0.000

⊕ MM	DIM TP FBPF BH5= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 135						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	60.086	0.086				
PA	135.000	134.318	-0.682				
DF	8.800	8.756	-0.044	0.300	0.300		0.000
TP	RFS		1.439	0.300		0.000	1.139
RN	0.000	0.010	0.010	0.300	0.000		0.000

⊕ MM	DIM TP FBPF BH6= TRUE POSITION OF CIRCLE CR-FARFLANGE BH 165						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	60.000	59.977	-0.023				
PA	165.000	164.355	-0.645				
DF	8.800	8.756	-0.044	0.300	0.300		0.000
TP	RFS		1.351	0.300		0.000	1.051
RN	0.000	0.012	0.012	0.300	0.000		0.000

DATUM-1-PLANE

MM	DIM LOC-DATUM-1-PLANE= LOCATION OF PLANE PLC-DAT-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	92.840	92.907	0.067	0.200	0.200	0.000
V	-0.002	-1.000	0.001			
FL	0.000	0.107	0.107	0.200	0.000	0.000

// MM	DIM PARL5= PARALLEL OF PLANE PLC-DAT-1,RFS TO WORKPLANE YMINUS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.310	0.310	0.200	0.000	0.110

DEG	DIM ANGL7= 3D ANGLE (TRUE) FROM PLANE PLC-DAT-1 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.151	0.151	0.100	0.100	0.051

DATUM-2-PLANE

MM	DIM LOC-DATUM-2-PLANE= LOCATION OF PLANE PLC-DAT-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1154.560	1158.097	3.537	0.200	0.200	3.337
V	0.001	1.000	0.001			
FL	0.000	0.060	0.060	0.200	0.000	0.000

// MM	DIM PARL6= PARALLEL OF PLANE PLC-DAT-2,RFS TO WORKPLANE YPLUS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.164	0.164	0.200	0.000	0.000

DEG	DIM ANGL8= 3D ANGLE (TRUE) FROM PLANE PLC-DAT-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.084	0.084	0.100	0.100	0.000

MM	DIM DIST3= 2D DISTANCE FROM PLANE PLC-DAT-1 TO PLANE PLC-DAT-2 PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1065.191	4.131	0.200	0.200	3.931

MM	DIM DIST4= 2D DISTANCE FROM PLANE PLC-DAT-2 TO PLANE PL-FAR-END PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	93.500	93.518	0.018	0.200	0.200	0.000

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PICKUP ANTENNA FLANGE NW8

MM	DIM LOC5= LOCATION OF PLANE PL NW8 ANTENNA FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-53.800	-54.251	-0.451	0.200	0.200	0.251
V	-1.000	0.007	0.023			
FL	0.000	0.004	0.004	0.200	0.000	0.000

// MM	DIM PARL3= PARALLEL OF PLANE PL NW8 ANTENNA FLANGE,RFS TO WORKPLANE XMINUS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.692	0.692	0.200	0.000	0.492

DEG	DIM ANGL3= 3D ANGLE (TRUE) FROM PLANE PL NW8 ANTENNA FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	1.377	1.376	0.100	0.100	1.276

MM	DIM LOC6= LOCATION OF CIRCLE CR_NW8_ANTENNA_FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	60.600	60.771	0.171	0.200	0.200	0.000
Z	0.000	1.450	1.450	0.200	0.200	1.250
D	33.800	33.839	0.039	0.150	0.000	0.000
RN	0.000	0.005	0.005	0.150	0.000	0.000

MM	DIM DIST01= 2D DISTANCE FROM PLANE PL NW8 ANTENNA FLANGE ORING TO PLANE PL NW8 ANTENNA FLANGE PAR TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.551	0.051	0.050	0.000	0.001

MAIN COUPLER FLANGE NW40

MM	DIM LOC7= LOCATION OF PLANE PL NW 40 FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	88.000	88.131	0.131	0.200	0.200	0.000
V	1.000	-0.003	-0.002			
FL	0.000	0.010	0.010	0.200	0.000	0.000

// MM	DIM PARL4= PARALLEL OF PLANE PL NW 40 FLANGE,RFS TO WORKPLANE XMINUS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.244	0.244	0.200	0.000	0.044

DEG	DIM ANGL4= 3D ANGLE (COMPLEMENT) FROM PLANE PL NW 40 FLANGE TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.201	0.201	0.100	0.100	0.101

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MM DIM LOC8= LOCATION OF CIRCLE CR_NW_40_FLANGE

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
Y	1186.800	1190.872	4.072	0.200	0.200	3.872
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	76.000	76.070	0.070	0.200	0.000	0.000
RN	0.000	0.022	0.022	0.200	0.000	0.000

MM DIM DIST1= 2D DISTANCE FROM CIRCLE CR_NW_40_FLANGE TO PLANE PL-FAR-END PAR TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.743	0.143	0.200	0.200	0.000

MM DIM DIST NW40 MC DEPTH OF ORING GROOVE= 2D DISTANCE FROM PLANE PL NW 40 FLANGE ORING TO PLANE PL NW 40 FLANGE PAR TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.524	0.024	0.050	0.000	0.000

MM DIM TP NW40 MC BH= TRUE POSITION OF CIRCLE CR NW 40 FLANGE BH

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
PR	31.750	31.736	-0.014				
PA	112.500	112.220	-0.280				
DF	6.700	6.822	0.122	0.200	0.200		0.000
TP	RFS		0.311	0.300		0.000	0.011
RN	0.000	0.023	0.023	0.200	0.000		0.000

HOM-2 FLANGE NW12

MM DIM FLAT4= FLATNESS OF PLANE PL-NW12-FLANGE-HOM2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.003	0.003	0.200	0.000	0.000

MM DIM VECTOR1= LOCATION OF PLANE PL-NW12-FLANGE-HOM2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
V	-0.554	0.256	0.792			

DEG DIM ANGL6= 2D ANGLE (TRUE) FROM PLANE PL-NW12-FLANGE-HOM2 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	34.965	-0.035	0.500	0.500	0.000

MM DIM LOC9= LOCATION OF CIRCLE CR-NW12-FLANGE-HOM2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-70.368	-70.368	100.000	100.000	0.000
Y	0.000	1193.564	1193.564	2000.000	2000.000	0.000
Z	0.000	-11.314	-11.314	100.000	100.000	0.000
D	33.800	34.008	0.208	0.150	0.000	0.058
RN	0.000	0.078	0.078	0.150	0.000	0.000

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MM DIM DIST FORMTEIL2 POINT= 2D DISTANCE FROM POINT PT-FORMTEIL2 TO PLANE PL-NW12-FLANGE-HOM2 PERP TO PLANE PL-NW12-FLANGE-HOM2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.759	0.339	0.100	0.100	0.239

MM DIM DIST FORMTEIL2 TAIL= 2D DISTANCE FROM PLANE PL-FORMTEIL2 TO PLANE PL-NW12-FLANGE-HOM2 PERP TO PLANE PL-NW12-FLANGE-HOM2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.763	0.343	0.100	0.100	0.243

MM DIM DIST NW12 FLANGE ORING DEPTH= 2D DISTANCE FROM PLANE PL-NW12-FLANGE-HOM2 O-RING TO PLANE PL-NW12-FLANGE-HOM2 PERP TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.519	0.019	0.050	0.000	0.000

DEG DIM ANGL5= 2D ANGLE (TRUE) FROM PLANE PL-NW12-FLANGE-HOM2 TO LINE LINC ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	15.000	14.783	-0.217	0.500	0.500	0.000

HOM 1 LOCATION

MM DIM LOC-HOM1= LOCATION OF CYLINDER CY-HOM-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	67.759	67.759	100.000	100.000	0.000
Y	60.600	60.402	-0.198	0.200	0.200	0.000
Z	0.000	-41.540	-41.540	100.000	100.000	0.000
D	44.000	43.892	-0.108	0.000	0.100	0.008
RN	0.000	0.152	0.152	0.100	0.000	0.052
V	-0.856	0.002	0.516			

DEG DIM ANGL9= 2D ANGLE (COMPLEMENT) FROM CYLINDER CY-HOM-1 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	31.077	1.077	0.500	0.500	0.577

DEG DIM ANGL10= 3D ANGLE (TRUE) FROM CYLINDER CY-HOM-1 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	89.913	-0.087	0.500	0.500	0.000

DEG DIM ANGL11= 2D ANGLE (TRUE) FROM CYLINDER CY-HOM-1 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	60.000	58.923	-1.077	0.500	0.500	0.577

MM DIM HOM1 POINT= LOCATION OF POINT PT-RT-HOM-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PR	116.000	116.094	0.094	0.200	0.200	0.000

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MM	DIM HOM1 PLANE= LOCATION OF PLANE PL HOM-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PR	111.000	111.066	0.066	0.200	0.200	0.000
FL	0.000	0.023	0.023	0.200	0.000	0.000

INTERSECTION OF HOM1 & YZ PLANE

MM	DIM LOC-HOM1 X PLANE= LOCATION OF POINT PTC-HOM1 X YZ PLANE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	60.600	60.522	-0.078	0.200	0.200	0.000
Z	0.000	-0.703	-0.703	0.200	0.200	0.503

HOM 2 LOCATION

MM	DIM LOC-HOM2= LOCATION OF CYLINDER CY-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-64.586	-64.586	100.000	100.000	0.000
Y	1186.800	1191.029	4.229	3.000	3.000	1.229
Z	0.000	-45.410	-45.410	100.000	100.000	0.000
D	44.000	43.755	-0.245	0.000	0.100	0.145
RN	0.000	0.212	0.212	0.100	0.000	0.112
V	-0.817	0.001	-0.577			

MM	DIM DIST2= 2D DISTANCE FROM CYLINDER CY-HOM-2 TO PLANE PL-FAR-END PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.586	-0.014	0.200	0.200	0.000

DEG	DIM ANGL12= 2D ANGLE (TRUE) FROM CYLINDER CY-HOM-2 TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.207	0.207	0.500	0.500	0.000

DEG	DIM ANGL13= 3D ANGLE (COMPLEMENT) FROM CYLINDER CY-HOM-2 TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	90.000	90.044	0.044	0.500	0.500	0.000

DEG	DIM ANGL14= 2D ANGLE (TRUE) FROM CYLINDER CY-HOM-2 TO ZAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	55.000	54.793	-0.207	0.500	0.500	0.000

MM	DIM HOM2 POINT= LOCATION OF POINT PT-HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PR	116.000	116.114	0.114	0.200	0.200	0.000

MM	DIM HOM2 PLANE= LOCATION OF PLANE PL HOM-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PR	111.000	111.007	0.007	0.200	0.200	0.000
FL	0.000	0.004	0.004	0.200	0.000	0.000

INTERSECTION OF HOM2 & YZ PLANE

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MM	DIM LOC-HOM2 X PLANE= LOCATION OF POINT PTC-HOM2 X YZ PLANE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	1186.800	1190.968	4.168	3.000	3.000	1.168
Z	0.000	0.162	0.162	0.200	0.200	0.000

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LOCATIONS OF CONSTRUCTED CIRCLES
ON 18 HALF CELLS & 2 DATUM SURFACES & 2 VACUUM SURFACES

MM DIM LOC-CC1= LOCATION OF CIRCLE CRC-DAT-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	94.676	94.676	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.818	-0.182	0.050	0.050	0.132
RN	0.000	0.043	0.043	0.050	0.000	0.000

MM DIM LOC-CC2= LOCATION OF CIRCLE CRC-VAC-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.122	0.122	0.200	0.200	0.000
Y	0.000	124.107	124.107	2000.000	2000.000	0.000
Z	0.000	-0.035	-0.035	0.200	0.200	0.000
D	191.200	191.219	0.018	0.200	0.200	0.000
RN	0.000	0.094	0.094	0.200	0.000	0.000

MM DIM LOC-CC3= LOCATION OF CIRCLE CRC-CAV-1-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.151	0.151	0.200	0.200	0.000
Y	0.000	158.667	158.667	2000.000	2000.000	0.000
Z	0.000	-0.082	-0.083	0.200	0.200	0.000
D	210.300	211.159	0.859	0.200	0.200	0.659
RN	0.000	0.294	0.294	0.200	0.000	0.094

MM DIM LOC-CC4= LOCATION OF CIRCLE CRC-CAV-1-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.224	0.224	0.200	0.200	0.024
Y	0.000	166.916	166.916	2000.000	2000.000	0.000
Z	0.000	-0.111	-0.111	0.200	0.200	0.000
D	210.300	211.114	0.814	0.200	0.200	0.614
RN	0.000	0.181	0.181	0.200	0.000	0.000

MM DIM LOC-CC5= LOCATION OF CIRCLE CRC-CAV-2-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.433	0.433	0.200	0.200	0.233
Y	0.000	273.492	273.492	2000.000	2000.000	0.000
Z	0.000	-0.369	-0.369	0.200	0.200	0.169
D	210.300	211.054	0.754	0.200	0.200	0.554
RN	0.000	0.170	0.170	0.200	0.000	0.000

MM DIM LOC-CC6= LOCATION OF CIRCLE CRC-CAV-2-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.411	0.411	0.200	0.200	0.211
Y	0.000	282.327	282.327	2000.000	2000.000	0.000
Z	0.000	-0.414	-0.414	0.200	0.200	0.214
D	210.300	211.014	0.714	0.200	0.200	0.514
RN	0.000	0.172	0.172	0.200	0.000	0.000

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MM DIM LOC-CC7= LOCATION OF CIRCLE CRC-CAV-3-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.544	0.544	0.200	0.200	0.344
Y	0.000	389.909	389.909	2000.000	2000.000	0.000
Z	0.000	-0.577	-0.578	0.200	0.200	0.378
D	210.300	211.108	0.807	0.200	0.200	0.607
RN	0.000	0.226	0.226	0.200	0.000	0.026

MM DIM LOC-CC8= LOCATION OF CIRCLE CRC-CAV-3-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.582	0.581	0.200	0.200	0.381
Y	0.000	398.505	398.505	2000.000	2000.000	0.000
Z	0.000	-0.585	-0.585	0.200	0.200	0.385
D	210.300	211.081	0.781	0.200	0.200	0.581
RN	0.000	0.148	0.148	0.200	0.000	0.000

MM DIM LOC-CC9= LOCATION OF CIRCLE CRC-CAV-4-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.561	0.561	0.200	0.200	0.361
Y	0.000	505.305	505.305	2000.000	2000.000	0.000
Z	0.000	-0.699	-0.699	0.200	0.200	0.499
D	210.300	211.124	0.824	0.200	0.200	0.624
RN	0.000	0.193	0.193	0.200	0.000	0.000

MM DIM LOC-CC10= LOCATION OF CIRCLE CRC-CAV-4-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.519	0.519	0.200	0.200	0.319
Y	0.000	514.068	514.068	2000.000	2000.000	0.000
Z	0.000	-0.711	-0.711	0.200	0.200	0.511
D	210.300	211.001	0.701	0.200	0.200	0.501
RN	0.000	0.178	0.178	0.200	0.000	0.000

MM DIM LOC-CC11= LOCATION OF CIRCLE CRC-CAV-5-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.423	0.423	0.200	0.200	0.223
Y	0.000	621.381	621.381	2000.000	2000.000	0.000
Z	0.000	-0.713	-0.713	0.200	0.200	0.513
D	210.300	211.079	0.778	0.200	0.200	0.578
RN	0.000	0.154	0.154	0.200	0.000	0.000

MM DIM LOC-CC12= LOCATION OF CIRCLE CRC-CAV-5-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.418	0.418	0.200	0.200	0.218
Y	0.000	630.202	630.202	2000.000	2000.000	0.000
Z	0.000	-0.676	-0.676	0.200	0.200	0.476
D	210.300	211.016	0.716	0.200	0.200	0.516
RN	0.000	0.118	0.118	0.200	0.000	0.000

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MM DIM LOC-CC13= LOCATION OF CIRCLE CRC-CAV-6-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.296	0.296	0.200	0.200	0.096
Y	0.000	737.190	737.190	2000.000	2000.000	0.000
Z	0.000	-0.606	-0.606	0.200	0.200	0.406
D	210.300	210.998	0.697	0.200	0.200	0.497
RN	0.000	0.177	0.177	0.200	0.000	0.000

MM DIM LOC-CC14= LOCATION OF CIRCLE CRC-CAV-6-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.306	0.305	0.200	0.200	0.105
Y	0.000	745.618	745.618	2000.000	2000.000	0.000
Z	0.000	-0.584	-0.584	0.200	0.200	0.384
D	210.300	210.983	0.683	0.200	0.200	0.483
RN	0.000	0.245	0.245	0.200	0.000	0.045

MM DIM LOC-CC15= LOCATION OF CIRCLE CRC-CAV-7-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.205	0.205	0.200	0.200	0.005
Y	0.000	853.707	853.707	2000.000	2000.000	0.000
Z	0.000	-0.484	-0.484	0.200	0.200	0.284
D	210.300	211.073	0.773	0.200	0.200	0.573
RN	0.000	0.196	0.196	0.200	0.000	0.000

MM DIM LOC-CC16= LOCATION OF CIRCLE CRC-CAV-7-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.190	0.189	0.200	0.200	0.000
Y	0.000	862.364	862.364	2000.000	2000.000	0.000
Z	0.000	-0.478	-0.478	0.200	0.200	0.278
D	210.300	211.077	0.777	0.200	0.200	0.577
RN	0.000	0.124	0.124	0.200	0.000	0.000

MM DIM LOC-CC17= LOCATION OF CIRCLE CRC-CAV-8-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.100	0.100	0.200	0.200	0.000
Y	0.000	969.229	969.229	2000.000	2000.000	0.000
Z	0.000	-0.263	-0.264	0.200	0.200	0.064
D	210.300	211.086	0.786	0.200	0.200	0.586
RN	0.000	0.160	0.160	0.200	0.000	0.000

MM DIM LOC-CC18= LOCATION OF CIRCLE CRC-CAV-8-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.109	0.109	0.200	0.200	0.000
Y	0.000	977.734	977.734	2000.000	2000.000	0.000
Z	0.000	-0.252	-0.252	0.200	0.200	0.052
D	210.300	210.978	0.678	0.200	0.200	0.478
RN	0.000	0.175	0.175	0.200	0.000	0.000

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MM DIM LOC-CC19= LOCATION OF CIRCLE CRC-CAV-9-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.008	-0.008	0.200	0.200	0.000
Y	0.000	1085.157	1085.157	2000.000	2000.000	0.000
Z	0.000	-0.060	-0.060	0.200	0.200	0.000
D	210.300	211.147	0.846	0.200	0.200	0.646
RN	0.000	0.177	0.177	0.200	0.000	0.000

MM DIM LOC-CC20= LOCATION OF CIRCLE CRC-CAV-9-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.013	0.013	0.200	0.200	0.000
Y	0.000	1093.898	1093.898	2000.000	2000.000	0.000
Z	0.000	-0.045	-0.045	0.200	0.200	0.000
D	210.300	210.976	0.676	0.200	0.200	0.476
RN	0.000	0.231	0.231	0.200	0.000	0.031

MM DIM LOC-CC21= LOCATION OF CIRCLE CRC-VAC-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.015	-0.015	0.200	0.200	0.000
Y	0.000	1124.174	1124.174	2000.000	2000.000	0.000
Z	0.000	-0.039	-0.039	0.200	0.200	0.000
D	200.000	200.011	0.011	0.200	0.200	0.000
RN	0.000	0.042	0.042	0.200	0.000	0.000

MM DIM LOC-CC22= LOCATION OF CIRCLE CRC-DAT-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.000	0.000	0.200	0.200	0.000
Y	0.000	1156.088	1156.088	2000.000	2000.000	0.000
Z	0.000	0.000	0.000	0.200	0.200	0.000
D	111.000	110.843	-0.157	0.050	0.050	0.107
RN	0.000	0.045	0.045	0.050	0.000	0.000

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TRUE POSITIONS OF CONSTRUCTED CIRCLES
ON 18 HALF CELLS & 2 DATUM SURFACES & 2 VACUUM SURFACES

⊕ MM	DIM LOC-TP-CC1= TRUE POSITION OF CIRCLE CRC-DAT-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC2= TRUE POSITION OF CIRCLE CRC-VAC-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.122	0.122				
Z	0.000	-0.035	-0.035				
TP	RFS		0.254	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC3= TRUE POSITION OF CIRCLE CRC-CAV-1-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.151	0.151				
Z	0.000	-0.082	-0.083				
TP	RFS		0.344	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC4= TRUE POSITION OF CIRCLE CRC-CAV-1-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.224	0.224				
Z	0.000	-0.111	-0.111				
TP	RFS		0.499	0.400		0.000	0.099

⊕ MM	DIM LOC-TP-CC5= TRUE POSITION OF CIRCLE CRC-CAV-2-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.433	0.433				
Z	0.000	-0.369	-0.369				
TP	RFS		1.138	0.400		0.000	0.738

⊕ MM	DIM LOC-TP-CC6= TRUE POSITION OF CIRCLE CRC-CAV-2-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.411	0.411				
Z	0.000	-0.414	-0.414				
TP	RFS		1.167	0.400		0.000	0.767

⊕ MM	DIM LOC-TP-CC7= TRUE POSITION OF CIRCLE CRC-CAV-3-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.544	0.544				
Z	0.000	-0.577	-0.578				
TP	RFS		1.586	0.400		0.000	1.186

⊕ MM DIM LOC-TP-CC8= TRUE POSITION OF CIRCLE CRC-CAV-3-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.582	0.581				
Z	0.000	-0.585	-0.585				
TP	RFS		1.649	0.400		0.000	1.249

⊕ MM DIM LOC-TP-CC9= TRUE POSITION OF CIRCLE CRC-CAV-4-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.561	0.561				
Z	0.000	-0.699	-0.699				
TP	RFS		1.793	0.400		0.000	1.393

⊕ MM DIM LOC-TP-CC10= TRUE POSITION OF CIRCLE CRC-CAV-4-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.519	0.519				
Z	0.000	-0.711	-0.711				
TP	RFS		1.761	0.400		0.000	1.361

⊕ MM DIM LOC-TP-CC11= TRUE POSITION OF CIRCLE CRC-CAV-5-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.423	0.423				
Z	0.000	-0.713	-0.713				
TP	RFS		1.659	0.400		0.000	1.259

⊕ MM DIM LOC-TP-CC12= TRUE POSITION OF CIRCLE CRC-CAV-5-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.418	0.418				
Z	0.000	-0.676	-0.676				
TP	RFS		1.589	0.400		0.000	1.189

⊕ MM DIM LOC-TP-CC13= TRUE POSITION OF CIRCLE CRC-CAV-6-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.296	0.296				
Z	0.000	-0.606	-0.606				
TP	RFS		1.349	0.400		0.000	0.949

⊕ MM DIM LOC-TP-CC14= TRUE POSITION OF CIRCLE CRC-CAV-6-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.306	0.305				
Z	0.000	-0.584	-0.584				
TP	RFS		1.318	0.400		0.000	0.918

⊕ MM DIM LOC-TP-CC15= TRUE POSITION OF CIRCLE CRC-CAV-7-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.205	0.205				
Z	0.000	-0.484	-0.484				
TP	RFS		1.051	0.400		0.000	0.651

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⊕ MM	DIM LOC-TP-CC16= TRUE POSITION OF CIRCLE CRC-CAV-7-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.190	0.189				
Z	0.000	-0.478	-0.478				
TP	RFS		1.028	0.400		0.000	0.628

⊕ MM	DIM LOC-TP-CC17= TRUE POSITION OF CIRCLE CRC-CAV-8-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.100	0.100				
Z	0.000	-0.263	-0.264				
TP	RFS		0.564	0.400		0.000	0.164

⊕ MM	DIM LOC-TP-CC18= TRUE POSITION OF CIRCLE CRC-CAV-8-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.109	0.109				
Z	0.000	-0.252	-0.252				
TP	RFS		0.550	0.400		0.000	0.150

⊕ MM	DIM LOC-TP-CC19= TRUE POSITION OF CIRCLE CRC-CAV-9-1						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	-0.008	-0.008				
Z	0.000	-0.060	-0.060				
TP	RFS		0.122	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC20= TRUE POSITION OF CIRCLE CRC-CAV-9-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.013	0.013				
Z	0.000	-0.045	-0.045				
TP	RFS		0.093	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC21= TRUE POSITION OF CIRCLE CRC-VAC-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	-0.015	-0.015				
Z	0.000	-0.039	-0.039				
TP	RFS		0.084	0.400		0.000	0.000

⊕ MM	DIM LOC-TP-CC22= TRUE POSITION OF CIRCLE CRC-DAT-2						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL
X	0.000	0.000	0.000				
Z	0.000	0.000	0.000				
TP	RFS		0.000	0.400		0.000	0.000

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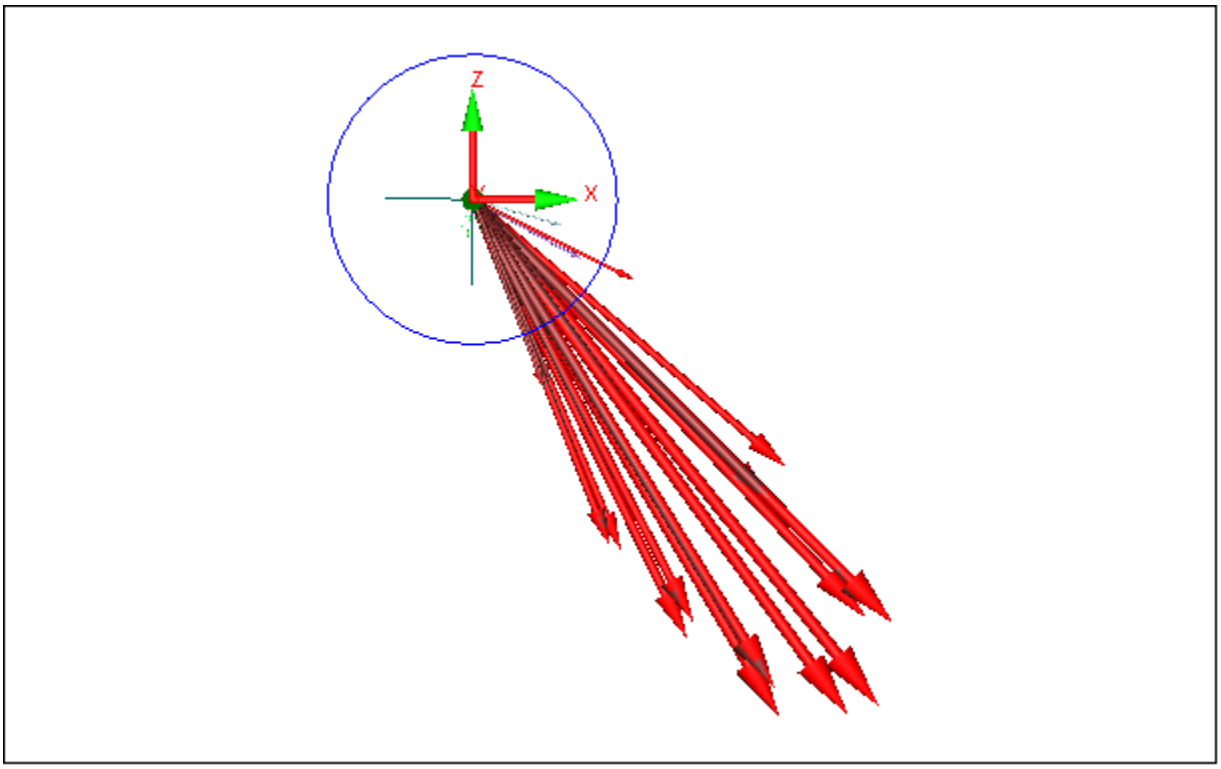
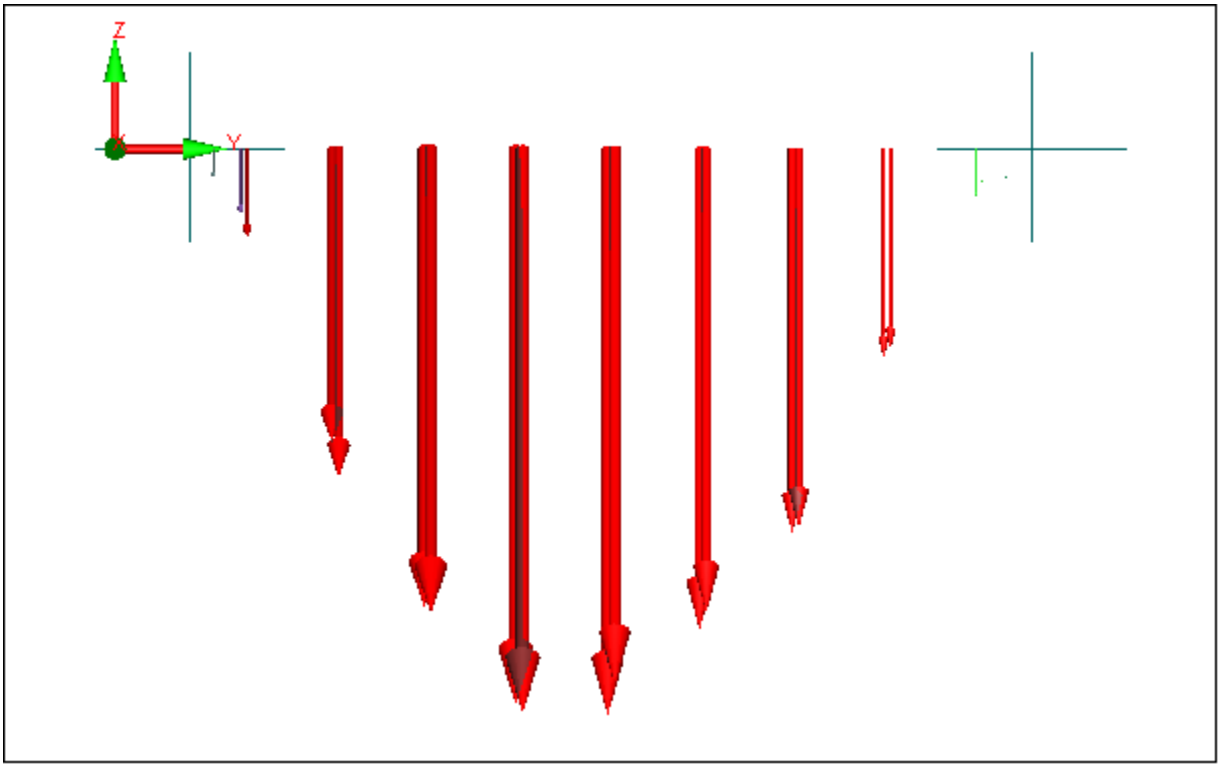
True Position plots from 3 views
x1000



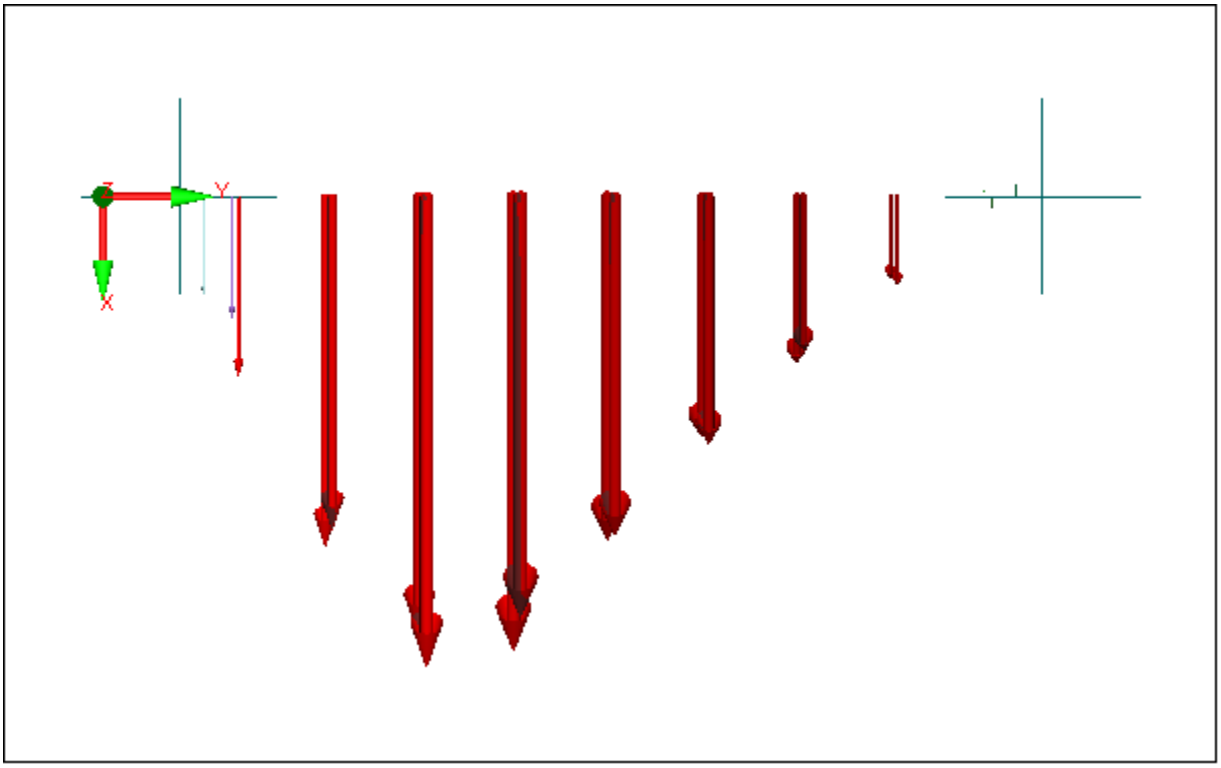
-Y View
x1000



PART NUMBER=PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9AES008 v4s IR DATE=5/15/2009

+X View

x1000



+Z View

x1000

MM	DIM LOC-BEST FIT CONSTRUCTED LINE= LOCATION OF LINE LNC-BEST-FIT					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.254	0.254	0.200	0.200	0.054
Y	0.000	625.669	625.669	2000.000	2000.000	0.000
Z	0.000	-0.354	-0.354	0.200	0.200	0.154
ST	0.000	0.989	0.989	0.200	0.000	0.789

SUPPORT RING CIRCLE LOCATIONS

Positive side

MM	DIM LOC-SUPPORT RING-P1= LOCATION OF CIRCLE CR-SUPPORT-RING-P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.486	0.486	0.200	0.200	0.286
Y	0.000	220.933	220.933	2000.000	2000.000	0.000
Z	0.000	-0.216	-0.216	0.200	0.200	0.016
R	56.500	56.339	-0.161	0.200	0.200	0.000
RN	0.000	0.030	0.030	0.200	0.000	0.000

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MM	DIM LOC-SUPPORT RING-P2= LOCATION OF CIRCLE CR-SUPPORT-RING-P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.928	0.928	0.200	0.200	0.728
Y	0.000	336.940	336.940	2000.000	2000.000	0.000
Z	0.000	-0.579	-0.579	0.200	0.200	0.379
R	56.500	56.434	-0.066	0.200	0.200	0.000
RN	0.000	0.154	0.154	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-P3= LOCATION OF CIRCLE CR-SUPPORT-RING-P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.634	0.634	0.200	0.200	0.434
Y	0.000	452.941	452.941	2000.000	2000.000	0.000
Z	0.000	-0.712	-0.712	0.200	0.200	0.512
R	56.500	56.448	-0.052	0.200	0.200	0.000
RN	0.000	0.099	0.099	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-P4= LOCATION OF CIRCLE CR-SUPPORT-RING-P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.839	0.839	0.200	0.200	0.639
Y	0.000	568.939	568.939	2000.000	2000.000	0.000
Z	0.000	-0.634	-0.635	0.200	0.200	0.435
R	56.500	56.499	-0.001	0.200	0.200	0.000
RN	0.000	0.247	0.247	0.200	0.000	0.047

MM	DIM LOC-SUPPORT RING-P5= LOCATION OF CIRCLE CR-SUPPORT-RING-P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.765	0.765	0.200	0.200	0.565
Y	0.000	684.942	684.942	2000.000	2000.000	0.000
Z	0.000	-1.023	-1.023	0.200	0.200	0.823
R	56.500	56.622	0.122	0.200	0.200	0.000
RN	0.000	0.099	0.099	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-P6= LOCATION OF CIRCLE CR-SUPPORT-RING-P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.373	0.373	0.200	0.200	0.173
Y	0.000	799.942	799.942	2000.000	2000.000	0.000
Z	0.000	-0.469	-0.469	0.200	0.200	0.269
R	56.500	56.564	0.064	0.200	0.200	0.000
RN	0.000	0.134	0.134	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-P7= LOCATION OF CIRCLE CR-SUPPORT-RING-P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.528	0.528	0.200	0.200	0.328
Y	0.000	915.943	915.943	2000.000	2000.000	0.000
Z	0.000	-0.563	-0.563	0.200	0.200	0.363
R	56.500	56.439	-0.061	0.200	0.200	0.000
RN	0.000	0.042	0.042	0.200	0.000	0.000

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MM	DIM LOC-SUPPORT RING-P8= LOCATION OF CIRCLE CR-SUPPORT-RING-P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.260	0.260	0.200	0.200	0.060
Y	0.000	1031.934	1031.934	2000.000	2000.000	0.000
Z	0.000	-0.279	-0.279	0.200	0.200	0.079
R	56.500	56.328	-0.172	0.200	0.200	0.000
RN	0.000	0.059	0.059	0.200	0.000	0.000

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SUPPORT RING POINT LOCATIONS
Positive Side

MM	DIM LOC-SUPPORT RING-PTP1= LOCATION OF POINT PT-SUPPORT-RING-P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.849	0.349	0.200	0.200	0.149
Y	0.000	213.633	213.633	2000.000	2000.000	0.000
Z	0.000	0.045	0.045	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP2= LOCATION OF POINT PT-SUPPORT-RING-P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.324	0.824	0.200	0.200	0.624
Y	0.000	329.833	329.833	2000.000	2000.000	0.000
Z	0.000	0.040	0.040	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP3= LOCATION OF POINT PT-SUPPORT-RING-P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.206	0.706	0.200	0.200	0.506
Y	0.000	446.433	446.433	2000.000	2000.000	0.000
Z	0.000	0.034	0.034	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP4= LOCATION OF POINT PT-SUPPORT-RING-P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.288	0.788	0.200	0.200	0.588
Y	0.000	562.133	562.133	2000.000	2000.000	0.000
Z	0.000	0.029	0.029	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP5= LOCATION OF POINT PT-SUPPORT-RING-P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.325	0.825	0.200	0.200	0.625
Y	0.000	677.833	677.833	2000.000	2000.000	0.000
Z	0.000	0.023	0.023	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP6= LOCATION OF POINT PT-SUPPORT-RING-P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.726	0.226	0.200	0.200	0.026
Y	0.000	794.033	794.033	2000.000	2000.000	0.000
Z	0.000	0.018	0.018	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTP7= LOCATION OF POINT PT-SUPPORT-RING-P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.996	0.496	0.200	0.200	0.296
Y	0.000	909.433	909.433	2000.000	2000.000	0.000
Z	0.000	0.012	0.012	0.200	0.200	0.000

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MM	DIM LOC-SUPPORT RING-PTP8= LOCATION OF POINT PT-SUPPORT-RING-P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.660	0.160	0.200	0.200	0.000
Y	0.000	1025.533	1025.533	2000.000	2000.000	0.000
Z	0.000	0.006	0.006	0.200	0.200	0.000

SUPPORT RING CIRCLES IN Y
Positive Side

MM	DIM LOC X SUPPORT RING CIRCLES P1= LOCATION OF CIRCLE CR-SUPPORT-RING-P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.486	0.486	0.200	0.200	0.286

MM	DIM LOC X SUPPORT RING CIRCLES P2= LOCATION OF CIRCLE CR-SUPPORT-RING-P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.928	0.928	0.200	0.200	0.728

MM	DIM LOC X SUPPORT RING CIRCLES P3= LOCATION OF CIRCLE CR-SUPPORT-RING-P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.634	0.634	0.200	0.200	0.434

MM	DIM LOC X SUPPORT RING CIRCLES P4= LOCATION OF CIRCLE CR-SUPPORT-RING-P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.839	0.839	0.200	0.200	0.639

MM	DIM LOC X SUPPORT RING CIRCLES P5= LOCATION OF CIRCLE CR-SUPPORT-RING-P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.765	0.765	0.200	0.200	0.565

MM	DIM LOC X SUPPORT RING CIRCLES P6= LOCATION OF CIRCLE CR-SUPPORT-RING-P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.373	0.373	0.200	0.200	0.173

MM	DIM LOC X SUPPORT RING CIRCLES P7= LOCATION OF CIRCLE CR-SUPPORT-RING-P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.528	0.528	0.200	0.200	0.328

MM	DIM LOC X SUPPORT RING CIRCLES P8= LOCATION OF CIRCLE CR-SUPPORT-RING-P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.260	0.260	0.200	0.200	0.060

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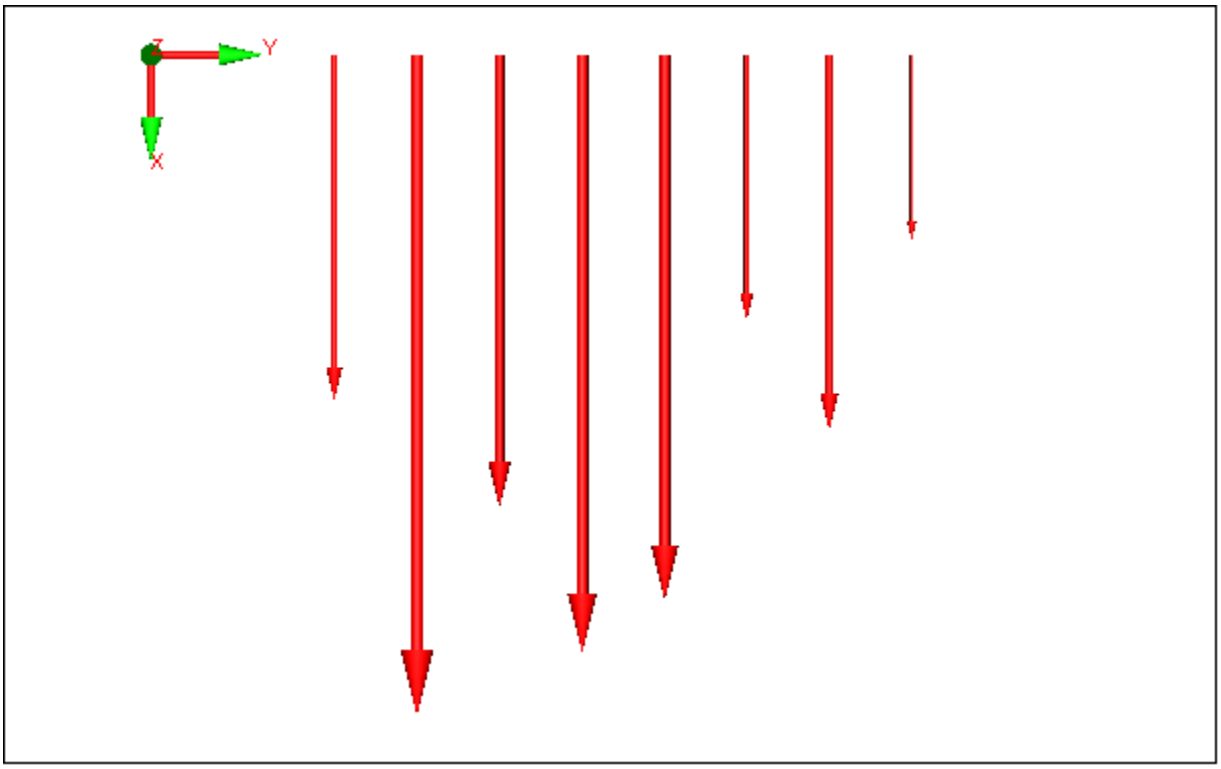

SUPPORT RING CIRCLES IN X
Positive Side
x1000

SUPPORT RING POINTS IN X
Positive Side

MM	DIM LOC X SUPPORT RING POINTS P1= LOCATION OF POINT PT-SUPPORT-RING-P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.849	0.349	0.200	0.200	0.149

MM	DIM LOC X SUPPORT RING POINTS P2= LOCATION OF POINT PT-SUPPORT-RING-P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.324	0.824	0.200	0.200	0.624

MM	DIM LOC X SUPPORT RING POINTS P3= LOCATION OF POINT PT-SUPPORT-RING-P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.206	0.706	0.200	0.200	0.506

MM	DIM LOC X SUPPORT RING POINTS P4= LOCATION OF POINT PT-SUPPORT-RING-P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.288	0.788	0.200	0.200	0.588

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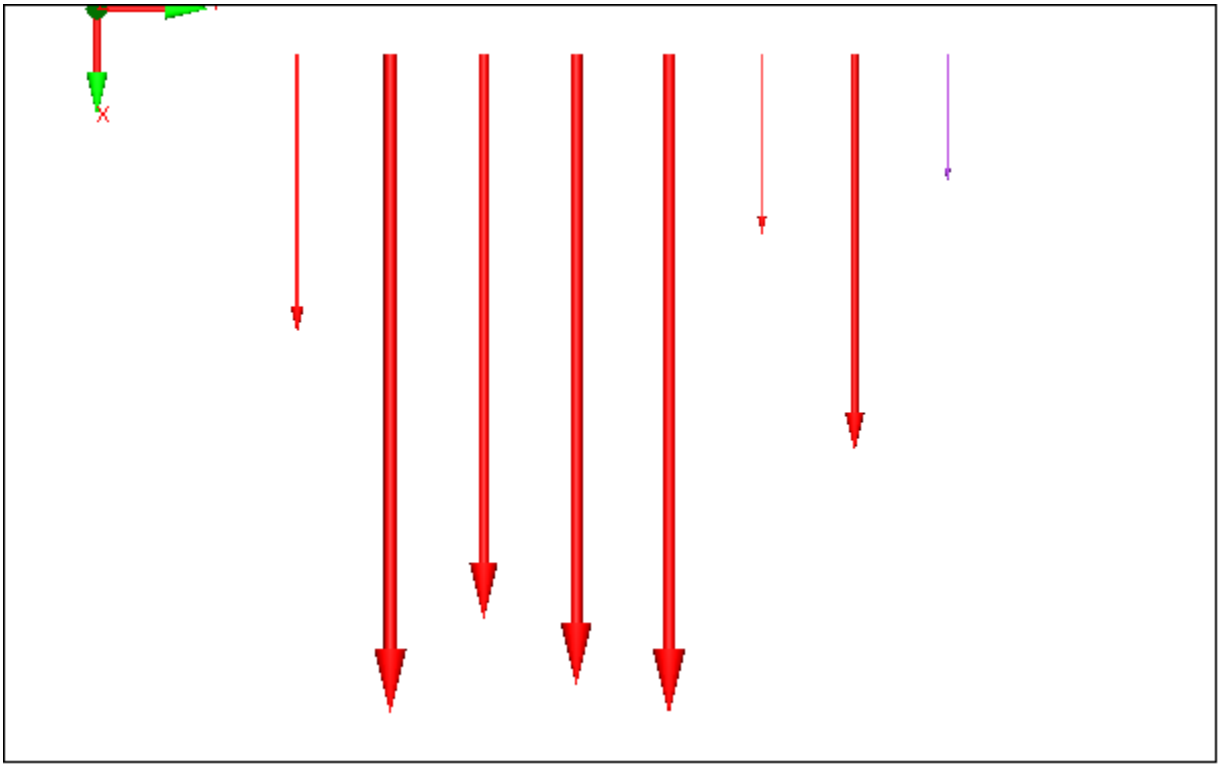
MM	DIM LOC X SUPPORT RING POINTS P5= LOCATION OF POINT PT-SUPPORT-RING-P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	57.325	0.825	0.200	0.200	0.625

MM	DIM LOC X SUPPORT RING POINTS P6= LOCATION OF POINT PT-SUPPORT-RING-P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.726	0.226	0.200	0.200	0.026

MM	DIM LOC X SUPPORT RING POINTS P7= LOCATION OF POINT PT-SUPPORT-RING-P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.996	0.496	0.200	0.200	0.296

MM	DIM LOC X SUPPORT RING POINTS P8= LOCATION OF POINT PT-SUPPORT-RING-P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	56.500	56.660	0.160	0.200	0.200	0.000



SUPPORT RING POINTS IN X
Positive Side
x1000

SUPPORT RING CIRCLE LOCATIONS
Negative side

PART NUMBER=PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9AES008 v4s IR DATE=5/15/2009

MM	DIM LOC-SUPPORT RING-N1= LOCATION OF CIRCLE CR-SUPPORT-RING-N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.068	-0.068	0.200	0.200	0.000
Y	0.000	220.930	220.930	2000.000	2000.000	0.000
Z	0.000	-0.242	-0.242	0.200	0.200	0.042
R	56.500	56.315	-0.185	0.200	0.200	0.000
RN	0.000	0.059	0.059	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N2= LOCATION OF CIRCLE CR-SUPPORT-RING-N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.459	0.459	0.200	0.200	0.259
Y	0.000	336.931	336.931	2000.000	2000.000	0.000
Z	0.000	-0.576	-0.576	0.200	0.200	0.376
R	56.500	56.481	-0.019	0.200	0.200	0.000
RN	0.000	0.029	0.029	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N3= LOCATION OF CIRCLE CR-SUPPORT-RING-N34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.256	0.256	0.200	0.200	0.056
Y	0.000	452.928	452.928	2000.000	2000.000	0.000
Z	0.000	-0.696	-0.696	0.200	0.200	0.496
R	56.500	56.508	0.008	0.200	0.200	0.000
RN	0.000	0.079	0.079	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N4= LOCATION OF CIRCLE CR-SUPPORT-RING-N45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.496	0.496	0.200	0.200	0.296
Y	0.000	568.925	568.925	2000.000	2000.000	0.000
Z	0.000	-0.518	-0.518	0.200	0.200	0.318
R	56.500	56.655	0.155	0.200	0.200	0.000
RN	0.000	0.051	0.051	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N5= LOCATION OF CIRCLE CR-SUPPORT-RING-N56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.246	0.246	0.200	0.200	0.046
Y	0.000	684.927	684.927	2000.000	2000.000	0.000
Z	0.000	-0.837	-0.838	0.200	0.200	0.638
R	56.500	56.468	-0.032	0.200	0.200	0.000
RN	0.000	0.049	0.049	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N6= LOCATION OF CIRCLE CR-SUPPORT-RING-N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.101	-0.101	0.200	0.200	0.000
Y	0.000	799.931	799.931	2000.000	2000.000	0.000
Z	0.000	-0.450	-0.450	0.200	0.200	0.250
R	56.500	56.487	-0.013	0.200	0.200	0.000
RN	0.000	0.146	0.146	0.200	0.000	0.000

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MM	DIM LOC-SUPPORT RING-N7= LOCATION OF CIRCLE CR-SUPPORT-RING-N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.196	0.196	0.200	0.200	0.000
Y	0.000	915.927	915.927	2000.000	2000.000	0.000
Z	0.000	-0.483	-0.483	0.200	0.200	0.283
R	56.500	56.630	0.130	0.200	0.200	0.000
RN	0.000	0.026	0.026	0.200	0.000	0.000

MM	DIM LOC-SUPPORT RING-N8= LOCATION OF CIRCLE CR-SUPPORT-RING-N89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.307	-0.307	0.200	0.200	0.107
Y	0.000	1031.930	1031.930	2000.000	2000.000	0.000
Z	0.000	-0.250	-0.250	0.200	0.200	0.050
R	56.500	56.388	-0.112	0.200	0.200	0.000
RN	0.000	0.027	0.027	0.200	0.000	0.000

SUPPORT RING POINT LOCATIONS
Negative side

MM	DIM LOC-SUPPORT RING-PTN1= LOCATION OF POINT PT-SUPPORT-RING-N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.380	0.120	0.200	0.200	0.000
Y	0.000	213.633	213.633	2000.000	2000.000	0.000
Z	0.000	-0.018	-0.018	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN2= LOCATION OF POINT PT-SUPPORT-RING-N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-55.987	0.513	0.200	0.200	0.313
Y	0.000	329.833	329.833	2000.000	2000.000	0.000
Z	0.000	-0.024	-0.024	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN3= LOCATION OF POINT PT-SUPPORT-RING-N34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.236	0.264	0.200	0.200	0.064
Y	0.000	446.433	446.433	2000.000	2000.000	0.000
Z	0.000	-0.029	-0.029	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN4= LOCATION OF POINT PT-SUPPORT-RING-N45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-55.970	0.530	0.200	0.200	0.330
Y	0.000	562.133	562.133	2000.000	2000.000	0.000
Z	0.000	-0.035	-0.035	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN5= LOCATION OF POINT PT-SUPPORT-RING-N56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.144	0.356	0.200	0.200	0.156
Y	0.000	677.833	677.833	2000.000	2000.000	0.000
Z	0.000	-0.040	-0.040	0.200	0.200	0.000

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MM	DIM LOC-SUPPORT RING-PTN6= LOCATION OF POINT PT-SUPPORT-RING-N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.587	-0.087	0.200	0.200	0.000
Y	0.000	794.033	794.033	2000.000	2000.000	0.000
Z	0.000	-0.046	-0.046	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN7= LOCATION OF POINT PT-SUPPORT-RING-N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.365	0.135	0.200	0.200	0.000
Y	0.000	909.433	909.433	2000.000	2000.000	0.000
Z	0.000	-0.051	-0.051	0.200	0.200	0.000

MM	DIM LOC-SUPPORT RING-PTN8= LOCATION OF POINT PT-SUPPORT-RING-N89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.835	-0.335	0.200	0.200	0.135
Y	0.000	1025.533	1025.533	2000.000	2000.000	0.000
Z	0.000	-0.057	-0.057	0.200	0.200	0.000

SUPPORT RING CIRCLES IN Y
Negative side

MM	DIM LOC X SUPPORT RING CIRCLES N1= LOCATION OF CIRCLE CR-SUPPORT-RING-N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.068	-0.068	0.200	0.200	0.000

MM	DIM LOC X SUPPORT RING CIRCLES N2= LOCATION OF CIRCLE CR-SUPPORT-RING-N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.459	0.459	0.200	0.200	0.259

MM	DIM LOC X SUPPORT RING CIRCLES N3= LOCATION OF CIRCLE CR-SUPPORT-RING-N34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.256	0.256	0.200	0.200	0.056

MM	DIM LOC X SUPPORT RING CIRCLES N4= LOCATION OF CIRCLE CR-SUPPORT-RING-N45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.496	0.496	0.200	0.200	0.296

MM	DIM LOC X SUPPORT RING CIRCLES N5= LOCATION OF CIRCLE CR-SUPPORT-RING-N56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.246	0.246	0.200	0.200	0.046

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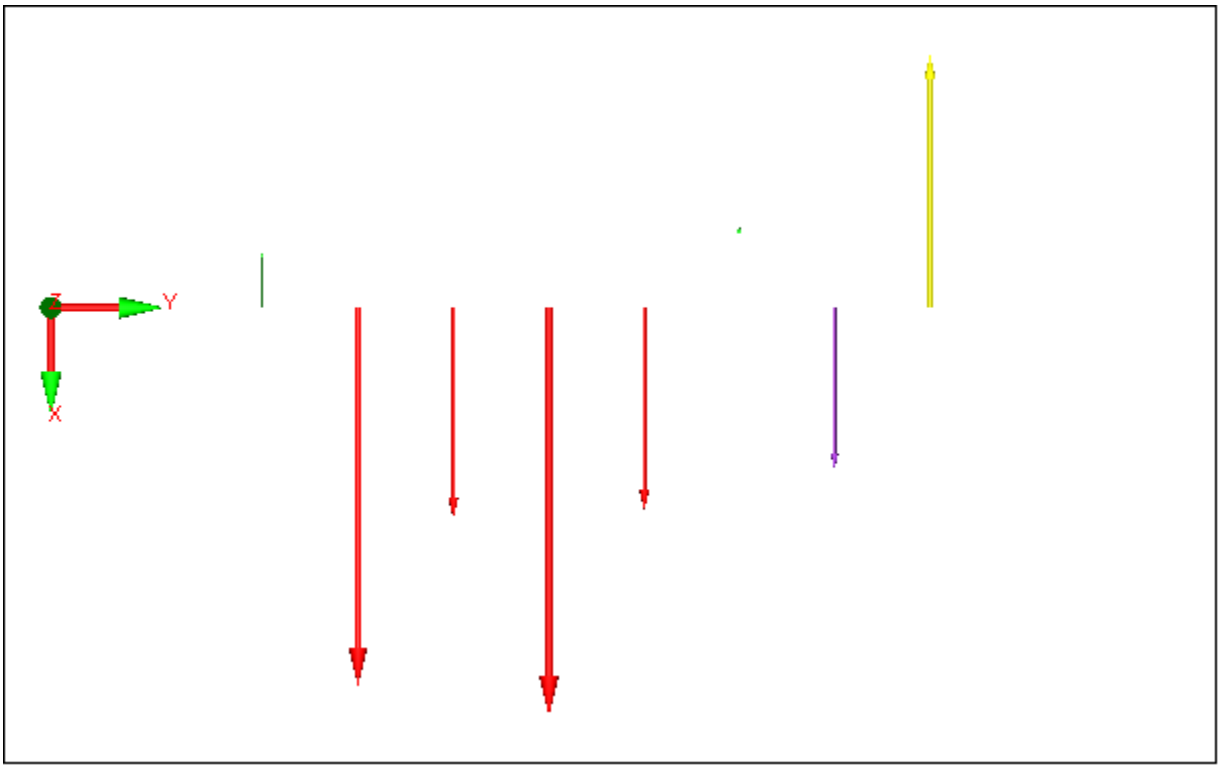
MM	DIM LOC X SUPPORT RING CIRCLES N6= LOCATION OF CIRCLE CR-SUPPORT-RING-N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.101	-0.101	0.200	0.200	0.000

MM	DIM LOC X SUPPORT RING CIRCLES N7= LOCATION OF CIRCLE CR-SUPPORT-RING-N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	0.196	0.196	0.200	0.200	0.000

MM	DIM LOC X SUPPORT RING CIRCLES N8= LOCATION OF CIRCLE CR-SUPPORT-RING-N89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	0.000	-0.307	-0.307	0.200	0.200	0.107



SUPPORT RING CIRCLES IN X
Negative Side
x1000

SUPPORT RING POINTS IN X
Negative side

MM	DIM LOC X SUPPORT RING POINTS N1= LOCATION OF POINT PT-SUPPORT-RING-N1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.380	0.120	0.200	0.200	0.000

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MM DIM LOC X SUPPORT RING POINTS N2= LOCATION OF POINT PT-SUPPORT-RING-N2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-55.987	0.513	0.200	0.200	0.313

MM DIM LOC X SUPPORT RING POINTS N3= LOCATION OF POINT PT-SUPPORT-RING-N3

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.236	0.264	0.200	0.200	0.064

MM DIM LOC X SUPPORT RING POINTS N4= LOCATION OF POINT PT-SUPPORT-RING-N4

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-55.970	0.530	0.200	0.200	0.330

MM DIM LOC X SUPPORT RING POINTS N5= LOCATION OF POINT PT-SUPPORT-RING-N5

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.144	0.356	0.200	0.200	0.156

MM DIM LOC X SUPPORT RING POINTS N6= LOCATION OF POINT PT-SUPPORT-RING-N6

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.587	-0.087	0.200	0.200	0.000

MM DIM LOC X SUPPORT RING POINTS N7= LOCATION OF POINT PT-SUPPORT-RING-N7

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.365	0.135	0.200	0.200	0.000

MM DIM LOC X SUPPORT RING POINTS N8= LOCATION OF POINT PT-SUPPORT-RING-N8

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
X	-56.500	-56.835	-0.335	0.200	0.200	0.135

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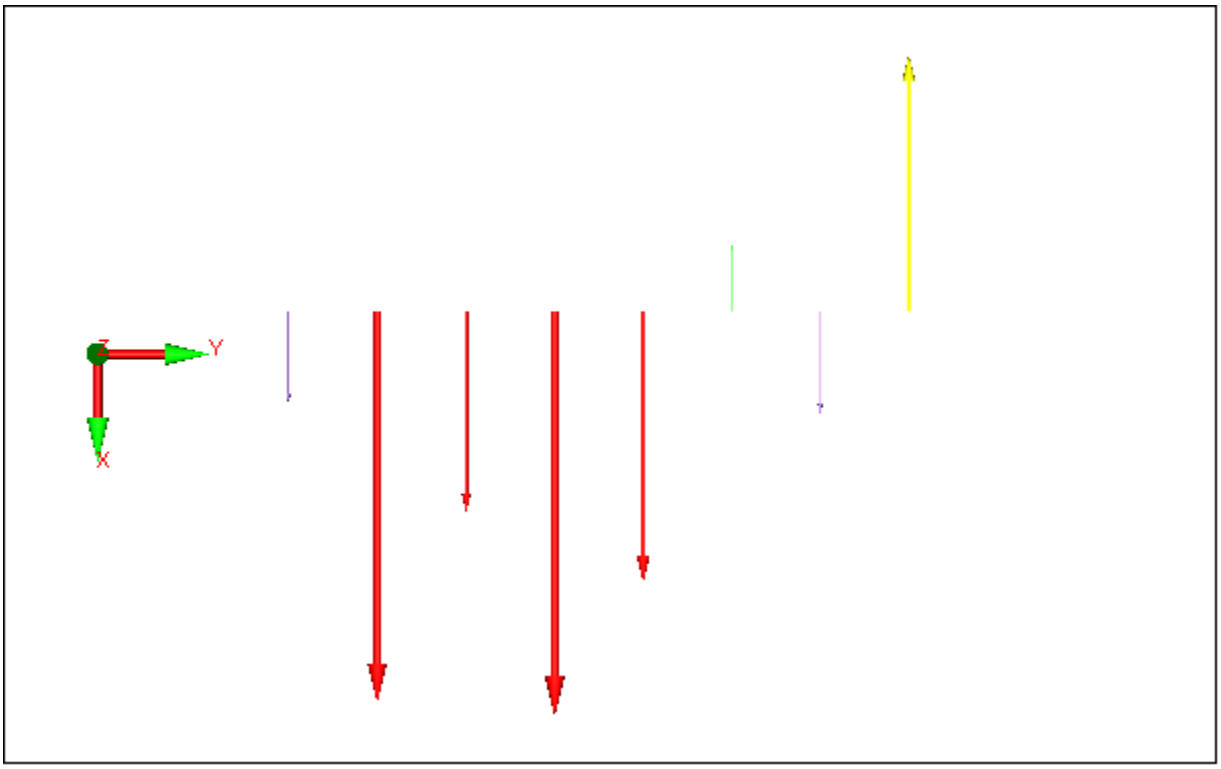

SUPPORT RING POINT IN X
Negative Side
x1000

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---------- Report for Excel ----------

MM	DIM A= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE TO PLANE PL-FAR-END PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1247.000	1251.615	4.615	0.200	0.200	4.415

MM	DIM B= 2D DISTANCE FROM PLANE PLC-DAT-1 TO PLANE PLC-DAT-2 PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1061.060	1065.191	4.131	0.200	0.200	3.931

MM	DIM C= 2D DISTANCE FROM PLANE PLC-DAT-1 TO CIRCLE CR_NW8_ANTENNA_FLANGE PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	32.240	32.136	-0.104	0.200	0.200	0.000

MM	DIM D= 2D DISTANCE FROM PLANE PLC-DAT-2 TO CIRCLE CR_NW_40_FLANGE PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	32.900	32.775	-0.125	0.200	0.200	0.000

MM	DIM E= 2D DISTANCE FROM LINE LNC-LEVEL TO PLANE PL NW8 ANTENNA FLANGE PAR TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	53.800	54.251	0.451	0.200	0.200	0.251

MM	DIM F= 2D DISTANCE FROM LINE LNC-LEVEL TO PLANE PL NW 40 FLANGE PAR TO XAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	88.000	88.131	0.131	0.200	0.200	0.000

MM	DIM G= LOCATION OF POINT NOTINTHISORIENTATION					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
T	0.000	0.000	0.000	0.000	0.000	0.000

MM	DIM H= 2D DISTANCE FROM PLANE PL-FORMTEIL2 TO PLANE PL-NW12-FLANGE-HOM2 PERP TO PLANE PL-NW12-FLANGE-HOM2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	28.420	28.763	0.343	0.100	0.100	0.243

MM	DIM I1= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE TO CYLINDER CY-HOM-1 PAR TO YAXIS					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	60.600	60.402	-0.198	0.200	0.200	0.000

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MM DIM I2= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE TO CYLINDER CY-HOM-2 PAR TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1186.800	1191.029	4.229	0.200	0.200	4.029

MM DIM I3= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE TO CIRCLE CR_NW_40_FLANGE PAR TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1186.800	1190.872	4.072	0.200	0.200	3.872

MM DIM J1= 2D DISTANCE FROM PLANE PL-NEAR-END-FLANGE-ORING TO PLANE PL-NEAR-END-FLANGE PERP TO PLANE PL-NEAR-END-FLANGE

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	0.999	-0.001	0.100	0.100	0.000

MM DIM J2= LOCATION OF POINT NOTINTHISORIENTATION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
T	0.000	0.000	0.000	0.000	0.000	0.000

MM DIM J3= 2D DISTANCE FROM PLANE PL NW8 ANTENNA FLANGE ORING TO PLANE PL NW8 ANTENNA FLANGE PERP TO PLANE PL NW8 ANTENNA FLANGE

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.551	0.051	0.050	0.000	0.001

MM DIM J4= 2D DISTANCE FROM PLANE PL-NW12-FLANGE-HOM2 O-RING TO PLANE PL-NW12-FLANGE-HOM2 PAR TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.519	0.019	0.050	0.000	0.000

MM DIM J5= 2D DISTANCE FROM PLANE PL NW 40 FLANGE ORING TO PLANE PL NW 40 FLANGE PERP TO PLANE PL NW 40 FLANGE

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.500	0.524	0.024	0.050	0.000	0.000

MM DIM J6= 2D DISTANCE FROM PLANE PL-FAR-END-FLANGE-ORING TO PLANE PL-FAR-END PERP TO PLANE PL-FAR-END

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	1.000	0.946	-0.054	0.100	0.100	0.000

DEG DIM K= 2D ANGLE (TRUE) FROM CYLINDER CY-HOM-1 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	30.000	31.077	1.077	0.500	0.500	0.577

DEG DIM L= 2D ANGLE (TRUE) FROM CYLINDER CY-HOM-2 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	35.000	35.207	0.207	0.500	0.500	0.000

DEG DIM M= 2D ANGLE (TRUE) FROM LINE LINC_AXIS_NW40 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
A	0.000	0.000	0.000	0.500	0.500	0.000

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MM	DIM N1= LOCATION OF CIRCLE CR-NEARFLANGE BH 015					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	15.000	13.443	-1.557	1.000	1.000	0.557

MM	DIM N2= LOCATION OF CIRCLE CR-NEARFLANGE BH 045					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	45.000	43.594	-1.406	1.000	1.000	0.406

MM	DIM N3= LOCATION OF CIRCLE CR-NEARFLANGE BH 075					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	75.000	73.507	-1.492	1.000	1.000	0.492

MM	DIM N4= LOCATION OF CIRCLE CR-NEARFLANGE BH 105					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	105.000	103.569	-1.431	1.000	1.000	0.431

MM	DIM N5= LOCATION OF CIRCLE CR-NEARFLANGE BH 135					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	135.000	133.739	-1.261	1.000	1.000	0.261

MM	DIM N6= LOCATION OF CIRCLE CR-NEARFLANGE BH 165					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	165.000	163.745	-1.255	1.000	1.000	0.255

MM	DIM N13= LOCATION OF CIRCLE CR-FARFLANGE BH 015					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	15.000	14.612	-0.388	1.000	1.000	0.000

MM	DIM N14= LOCATION OF CIRCLE CR-FARFLANGE BH 045					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	45.000	44.503	-0.497	1.000	1.000	0.000

MM	DIM N15= LOCATION OF CIRCLE CR-FARFLANGE BH 075					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	75.000	74.374	-0.626	1.000	1.000	0.000

MM	DIM N16= LOCATION OF CIRCLE CR-FARFLANGE BH 105					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	105.000	104.339	-0.661	1.000	1.000	0.000

MM	DIM N17= LOCATION OF CIRCLE CR-FARFLANGE BH 135					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	135.000	134.318	-0.682	1.000	1.000	0.000

MM	DIM N18= LOCATION OF CIRCLE CR-FARFLANGE BH 165					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
PA	165.000	164.355	-0.645	1.000	1.000	0.000

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MM	DIM O1= LOCATION OF CIRCLE CR-NEAR-END-FLANGE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	140.000	140.010	0.010	0.300	0.300	0.000

MM	DIM O2= LOCATION OF CIRCLE CR-FAR-END					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	140.000	140.021	0.021	0.300	0.300	0.000

MM	DIM P1= LOCATION OF CIRCLE CRC-CAV-1-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.159	0.859	0.050	0.050	0.809

MM	DIM P2= LOCATION OF CIRCLE CRC-CAV-1-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.114	0.814	0.050	0.050	0.764

MM	DIM P3= LOCATION OF CIRCLE CRC-CAV-2-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.054	0.754	0.050	0.050	0.704

MM	DIM P4= LOCATION OF CIRCLE CRC-CAV-2-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.014	0.713	0.050	0.050	0.663

MM	DIM P5= LOCATION OF CIRCLE CRC-CAV-3-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.108	0.807	0.050	0.050	0.757

MM	DIM P6= LOCATION OF CIRCLE CRC-CAV-3-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.081	0.781	0.050	0.050	0.731

MM	DIM P7= LOCATION OF CIRCLE CRC-CAV-4-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.124	0.823	0.050	0.050	0.773

MM	DIM P8= LOCATION OF CIRCLE CRC-CAV-4-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.001	0.701	0.050	0.050	0.651

MM	DIM P9= LOCATION OF CIRCLE CRC-CAV-5-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.079	0.778	0.050	0.050	0.728

MM	DIM P10= LOCATION OF CIRCLE CRC-CAV-5-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.016	0.716	0.050	0.050	0.666

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MM	DIM P11= LOCATION OF CIRCLE CRC-CAV-6-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.998	0.697	0.050	0.050	0.647

MM	DIM P12= LOCATION OF CIRCLE CRC-CAV-6-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.983	0.682	0.050	0.050	0.632

MM	DIM P13= LOCATION OF CIRCLE CRC-CAV-7-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.073	0.773	0.050	0.050	0.723

MM	DIM P14= LOCATION OF CIRCLE CRC-CAV-7-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.077	0.777	0.050	0.050	0.727

MM	DIM P15= LOCATION OF CIRCLE CRC-CAV-8-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.086	0.786	0.050	0.050	0.736

MM	DIM P16= LOCATION OF CIRCLE CRC-CAV-8-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.978	0.678	0.050	0.050	0.628

MM	DIM P17= LOCATION OF CIRCLE CRC-CAV-9-1					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	211.147	0.846	0.050	0.050	0.796

MM	DIM P18= LOCATION OF CIRCLE CRC-CAV-9-2					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	210.300	210.976	0.676	0.050	0.050	0.626

MM	DIM Q1= LOCATION OF CIRCLE CR-SUPPORT-RING-P12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.339	-0.161	0.080	0.080	0.081

MM	DIM Q2= LOCATION OF CIRCLE CR-SUPPORT-RING-P23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.434	-0.066	0.080	0.080	0.000

MM	DIM Q3= LOCATION OF CIRCLE CR-SUPPORT-RING-P34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.448	-0.052	0.080	0.080	0.000

MM	DIM Q4= LOCATION OF CIRCLE CR-SUPPORT-RING-P45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.499	-0.001	0.080	0.080	0.000

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MM	DIM Q5= LOCATION OF CIRCLE CR-SUPPORT-RING-P56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.622	0.122	0.080	0.080	0.042

MM	DIM Q6= LOCATION OF CIRCLE CR-SUPPORT-RING-P67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.564	0.064	0.080	0.080	0.000

MM	DIM Q7= LOCATION OF CIRCLE CR-SUPPORT-RING-P78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.439	-0.061	0.080	0.080	0.000

MM	DIM Q8= LOCATION OF CIRCLE CR-SUPPORT-RING-P89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.328	-0.172	0.080	0.080	0.092

MM	DIM Q9= LOCATION OF CIRCLE CR-SUPPORT-RING-N12					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.315	-0.185	0.080	0.080	0.105

MM	DIM Q10= LOCATION OF CIRCLE CR-SUPPORT-RING-N23					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.481	-0.019	0.080	0.080	0.000

MM	DIM Q11= LOCATION OF CIRCLE CR-SUPPORT-RING-N34					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.508	0.008	0.080	0.080	0.000

MM	DIM Q12= LOCATION OF CIRCLE CR-SUPPORT-RING-N45					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.655	0.155	0.080	0.080	0.075

MM	DIM Q13= LOCATION OF CIRCLE CR-SUPPORT-RING-N56					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.468	-0.032	0.080	0.080	0.000

MM	DIM Q14= LOCATION OF CIRCLE CR-SUPPORT-RING-N67					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.487	-0.013	0.080	0.080	0.000

MM	DIM Q15= LOCATION OF CIRCLE CR-SUPPORT-RING-N78					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.630	0.130	0.080	0.080	0.050

MM	DIM Q16= LOCATION OF CIRCLE CR-SUPPORT-RING-N89					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	56.500	56.388	-0.112	0.080	0.080	0.032

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MM DIM R1= LOCATION OF CIRCLE CRC-VAC-1

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	191.200	191.219	0.018	0.200	0.200	0.000

MM DIM R2= LOCATION OF CIRCLE CRC-VAC-2

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
D	200.000	200.011	0.011	0.200	0.200	0.000

MM DIM S1= LOCATION OF CIRCLE CRC_BC_NEF

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	60.000	60.040	0.040	0.300	0.300	0.000

MM DIM S2= LOCATION OF CIRCLE CRC_BC_FEF

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
R	60.000	60.250	0.250	0.300	0.300	0.000

MM DIM T1= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	109.200	109.250	0.050	0.200	0.200	0.000

MM DIM T2= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	20.700	20.730	0.030	0.100	0.000	0.000

MM DIM T3= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	20.700	20.780	0.080	0.100	0.000	0.000

MM DIM T4= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	20.700	20.780	0.080	0.100	0.000	0.000

MM DIM T5= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	55.200	55.240	0.040	0.200	0.000	0.000

MM DIM T6= KEYED IN DIMENSION

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	109.200	109.220	0.020	0.200	0.200	0.000

MM DIM U1= CONCENTRICITY FROM CIRCLE CR-NEAR-END-FLANGE TO LINE LNC-LEVEL

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.622	0.622	0.400	0.000	0.222

MM DIM U2= CONCENTRICITY FROM CIRCLE CR-FAR-END TO LINE LNC-LEVEL

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.301	0.301	0.400	0.000	0.000

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◎ MM	DIM U3= CONCENTRICITY FROM CIRCLE CRC-CAV-1-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.344	0.344	0.400	0.000	0.000

◎ MM	DIM U4= CONCENTRICITY FROM CIRCLE CRC-CAV-1-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.500	0.500	0.400	0.000	0.100

◎ MM	DIM U5= CONCENTRICITY FROM CIRCLE CRC-CAV-2-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.138	1.138	0.400	0.000	0.738

◎ MM	DIM U6= CONCENTRICITY FROM CIRCLE CRC-CAV-2-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.167	1.167	0.400	0.000	0.767

◎ MM	DIM U7= CONCENTRICITY FROM CIRCLE CRC-CAV-3-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.586	1.586	0.400	0.000	1.186

◎ MM	DIM U8= CONCENTRICITY FROM CIRCLE CRC-CAV-3-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.649	1.649	0.400	0.000	1.249

◎ MM	DIM U9= CONCENTRICITY FROM CIRCLE CRC-CAV-4-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.793	1.793	0.400	0.000	1.393

◎ MM	DIM U10= CONCENTRICITY FROM CIRCLE CRC-CAV-4-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.761	1.761	0.400	0.000	1.361

◎ MM	DIM U11= CONCENTRICITY FROM CIRCLE CRC-CAV-5-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.659	1.659	0.400	0.000	1.259

◎ MM	DIM U12= CONCENTRICITY FROM CIRCLE CRC-CAV-5-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.589	1.589	0.400	0.000	1.189

◎ MM	DIM U13= CONCENTRICITY FROM CIRCLE CRC-CAV-6-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.348	1.348	0.400	0.000	0.948

◎ MM	DIM U14= CONCENTRICITY FROM CIRCLE CRC-CAV-6-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.318	1.318	0.400	0.000	0.918

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◎ MM	DIM U15= CONCENTRICITY FROM CIRCLE CRC-CAV-7-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.051	1.051	0.400	0.000	0.651

◎ MM	DIM U16= CONCENTRICITY FROM CIRCLE CRC-CAV-7-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.028	1.028	0.400	0.000	0.628

◎ MM	DIM U17= CONCENTRICITY FROM CIRCLE CRC-CAV-8-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.564	0.564	0.400	0.000	0.164

◎ MM	DIM U18= CONCENTRICITY FROM CIRCLE CRC-CAV-8-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.549	0.549	0.400	0.000	0.149

◎ MM	DIM U19= CONCENTRICITY FROM CIRCLE CRC-CAV-9-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.121	0.121	0.400	0.000	0.000

◎ MM	DIM U20= CONCENTRICITY FROM CIRCLE CRC-CAV-9-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.093	0.093	0.400	0.000	0.000

◎ MM	DIM U21= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P12 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.063	1.063	0.400	0.000	0.663

◎ MM	DIM U22= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P23 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.188	2.188	0.400	0.000	1.788

◎ MM	DIM U23= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P34 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	1.906	1.906	0.400	0.000	1.506

◎ MM	DIM U24= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P45 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.104	2.104	0.400	0.000	1.704

◎ MM	DIM U25= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P56 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	2.555	2.555	0.400	0.000	2.155

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◎ MM	DIM U26= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P67 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.198	1.198	0.400	0.000	0.798	

◎ MM	DIM U27= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P78 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.544	1.544	0.400	0.000	1.144	

◎ MM	DIM U28= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-P89 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.763	0.763	0.400	0.000	0.363	

◎ MM	DIM U29= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N12 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.503	0.503	0.400	0.000	0.103	

◎ MM	DIM U30= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N23 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.473	1.473	0.400	0.000	1.073	

◎ MM	DIM U31= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N34 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.484	1.484	0.400	0.000	1.084	

◎ MM	DIM U32= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N45 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.433	1.433	0.400	0.000	1.033	

◎ MM	DIM U33= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N56 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.745	1.745	0.400	0.000	1.345	

◎ MM	DIM U34= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N67 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.923	0.923	0.400	0.000	0.523	

◎ MM	DIM U35= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N78 TO LINE LNC-LEVE						
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	1.042	1.042	0.400	0.000	0.642	

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◎ MM	DIM U36= CONCENTRICITY FROM CIRCLE CR-SUPPORT-RING-N89 TO LINE LNC-LEVE					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.792	0.792	0.400	0.000	0.392

◎ MM	DIM U37= CONCENTRICITY FROM CIRCLE CRC-DAT-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.000	0.000	0.400	0.000	0.000

◎ MM	DIM U38= CONCENTRICITY FROM CIRCLE CRC-DAT-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.000	0.000	0.400	0.000	0.000

◎ MM	DIM U39= CONCENTRICITY FROM CIRCLE CRC-VAC-1 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.255	0.255	0.400	0.000	0.000

◎ MM	DIM U40= CONCENTRICITY FROM CIRCLE CRC-VAC-2 TO LINE LNC-LEVEL					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.084	0.084	0.400	0.000	0.000

⊥ MM	DIM V1= PERPEND OF PLANE PL-NEAR-END-FLANGE,RFS TO LINE LNC-LEVEL,RFS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.389	0.389	0.200	0.000	0.189

⊥ MM	DIM V2= PERPEND OF PLANE PL-FAR-END,RFS TO LINE LNC-LEVEL,RFS EXTEND=0.000					
AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL
M	0.000	0.197	0.197	0.200	0.000	0.000

END OF MEASUREMENT FOR
PN=PN440004-n ILC 1p3GHZ RF CAVITY ASSEMBLY 000 TB9AES008 v4s IR
DWG= SN=
TOTAL # OF MEAS =529 # OUT OF TOL =249