FERMILAB Technical Division

QUALITY CONTROL REPORT

DATE=1/23/2009 TIME=4:23:55 PM

PART NAME : ILC AES 1.3GHZ RF CAVITY ASSEMBLY-AES001-180-IR 090122.PRG
REV NUMBER :
SER NUMBER :
STATS COUNT : 1

'Inspected by' : Robert Riley
'Cavity Number' : AES 001 180 090122

BEAM PIPE FLANGE NEAR

DIM LOC1= LOCATION OF PLANE PL-NEAR-END-FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	0.000	0.000	0.000	0.200	0.200	0.000	----#----
V	-0.000	-1.000	-0.003				
FL	0.000	0.042	0.042	0.200	0.000	0.000	-#-------

DIM PARL1= PARALLELISM OF PLANE PL-NEAR-END-FLANGE,RFS TO WORKPLANE YMINUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.305	0.305	0.200	0.000	0.105	-------->

DIM ANGL1= 3D ANGLE (COMPLEMENT) FROM PLANE PL-NEAR-END-FLANGE TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.148	0.148	0.100	0.100	0.048	-------->

DIM LOC2= LOCATION OF CIRCLE CR-NEAR-END -FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.086	-0.086	0.200	0.200	0.000	--#------
Z	0.000	-0.266	-0.266	0.200	0.200	0.066	<--------
D	140.000	140.050	0.050	0.300	0.300	0.000	-----#---
RN	0.000	0.055	0.055	0.200	0.000	0.000	--#------

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BEAM PIPE FLANGE FAR

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1283.400	1280.024	-3.376	3.000	3.000	0.376	<--------
V	-0.001	1.000	-0.005				
FL	0.000	0.044	0.044	0.200	0.000	0.000	-#-------

DIM PARL2= PARALLELISM OF PLANE PL-FAR-END,RFS TO WORKPLANE YMINUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.633	0.633	0.200	0.000	0.433	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.290	0.290	0.100	0.100	0.190	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.101	-0.101	0.200	0.200	0.000	--#------
Z	0.000	-0.408	-0.408	0.200	0.200	0.208	<--------
D	140.000	139.721	-0.279	0.300	0.300	0.000	#--------
RN	0.000	0.038	0.038	0.200	0.000	0.000	-#-------

DATUM-1-PLANE

DIM LOC-DATUM-1-PLANE= LOCATION OF PLANE PLC-DAT-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	128.800	128.338	-0.462	0.200	0.200	0.262	<--------
V	0.004	-1.000	-0.005				
FL	0.000	0.088	0.088	0.200	0.000	0.000	---#-----

DIM PARL5= PARALLELISM OF PLANE PLC-DAT-1,RFS TO WORKPLANE YMINUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.637	0.637	0.200	0.000	0.437	-------->

DIM ANGL7= 3D ANGLE (TRUE) FROM PLANE PLC-DAT-1 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.359	0.359	0.100	0.100	0.259	-------->

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DATUM-2-PLANE

DIM LOC-DATUM-2-PLANE= LOCATION OF PLANE PLC-DAT-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1190.000	1186.628	-3.372	0.200	0.200	3.172	<--------
V	0.002	1.000	-0.003				
FL	0.000	0.069	0.069	0.200	0.000	0.000	---#-----

DIM PARL6= PARALLELISM OF PLANE PLC-DAT-2,RFS TO WORKPLANE YMINUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.429	0.429	0.200	0.000	0.229	-------->

DIM ANGL8= 3D ANGLE (TRUE) FROM PLANE PLC-DAT-2 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.226	0.226	0.100	0.100	0.126	-------->

PICKUP ANTENNA FLANGE NW8

DIM LOC5= LOCATION OF PLANE PL-NW8-ANTENNA-FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	-53.800	-54.126	-0.326	0.200	0.200	0.126	<--------
V	-1.000	-0.002	-0.000				
FL	0.000	0.003	0.003	0.200	0.000	0.000	#--------

DIM PARL3= PARALLELISM OF PLANE PL-NW8-ANTENNA-FLANGE,RFS TO WORKPLANE XMINUS UNITS =MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.060	0.060	0.200	0.000	0.000	--#------

DIM ANGL3= 3D ANGLE (TRUE) FROM PLANE PL-NW8-ANTENNA-FLANGE TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	0.000	0.138	0.138	0.100	0.100	0.038	-------->

DIM LOC6= LOCATION OF CIRCLE CR-NW8-ANTENNA-FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	96.600	96.502	-0.098	0.200	0.200	0.000	--#------
Z	0.000	0.158	0.158	0.200	0.200	0.000	--------#
D	33.808	33.797	-0.011	0.150	0.000	0.011	<--------
RN	0.000	0.012	0.012	0.150	0.000	0.000	#--------

MAIN COUPLER FLANGE NW40

DIM LOC7= LOCATION OF PLANE PL-NW-40-FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	88.000	88.026	0.026	0.200	0.200	0.000	-----#---
V	1.000	0.003	0.001				
FL	0.000	0.016	0.016	0.200	0.000	0.000	#--------

DIM PARL4= PARALLELISM OF PLANE PL-NW-40-FLANGE,RFS TO WORKPLANE XMINUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.191	0.191	0.200	0.000	0.000	--------#

DIM ANGL4= 3D ANGLE (TRUE) FROM PLANE PL-NW-40-FLANGE TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL

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A	0.000	0.165	0.165	0.100	0.100	0.065	-------->

DIM LOC8= LOCATION OF CIRCLE CR-NW-40-FLANGE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Y	1222.800	1219.299	-3.501	0.200	0.200	3.301	<--------
Z	0.000	0.216	0.216	0.200	0.200	0.016	-------->
D	76.000	76.024	0.024	0.200	0.000	0.000	-#-------
RN	0.000	0.008	0.008	0.200	0.000	0.000	#--------

DIM DIST1= 2D DISTANCE FROM CIRCLE CR-NW-40-FLANGE TO PLANE PL-FAR-END PAR TO YAXIS, NO RADIUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.725	0.125	0.200	0.200	0.000	-------#-

HOM-1 FLANGE NW12

DIM FLAT1= FLATNESS OF PLANE PL-NW12-FLANGE-HOM1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.004	0.004	0.200	0.000	0.000	#--------

DIM ANGL16= 2D ANGLE (TRUE) FROM PLANE PL-NW12-FLANGE-HOM1 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	15.451	0.451	0.500	0.500	0.000	--------#

DIM ANGL17= 2D ANGLE (COMPLEMENT) FROM PLANE PL-NW12-FLANGE-HOM1 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.434	0.434	0.500	0.500	0.000	--------#

DIM LOC= LOCATION OF CIRCLE CR-NW12-FLANGE-HOM1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	37.891	37.891	100.000	100.000	0.000	------#--
Y	0.000	94.003	94.003	100.000	100.000	0.000	--------#
Z	0.000	-62.545	-62.545	100.000	100.000	0.000	-#-------
D	33.800	33.839	0.039	0.150	0.000	0.000	--#------
RN	0.000	0.008	0.008	0.150	0.000	0.000	#--------

HOM-2 FLANGE NW12

DIM = FLATNESS OF PLANE PL-NW12-FLANGE-HOM-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	0.000	0.005	0.005	0.200	0.000	0.000	#--------

DIM ANGL5= 2D ANGLE (COMPLEMENT) FROM PLANE PL-NW12-FLANGE-HOM-2 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	18.883	3.883	0.500	0.500	3.383	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.024	0.024	0.500	0.500	0.000	----#----

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DIM LOC9= LOCATION OF CIRCLE CR-NW12-FLANGE-HOM-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-72.827	-72.827	100.000	100.000	0.000	-#-------
Y	0.000	1223.213	1223.213	2000.000	2000.000	0.000	-------#-
Z	0.000	-8.590	-8.590	100.000	100.000	0.000	----#----
D	33.800	33.819	0.019	0.150	0.000	0.000	-#-------
RN	0.000	0.013	0.013	0.150	0.000	0.000	#--------

HOM 1 LOCATION

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	68.566	68.566	100.000	100.000	0.000	-------#-
Y	96.600	96.597	-0.003	0.200	0.200	0.000	----#----
Z	0.000	-40.114	-40.114	100.000	100.000	0.000	--#------
D	44.000	43.813	-0.187	0.000	0.100	0.087	<--------
RN	0.000	0.109	0.109	0.100	0.000	0.009	-------->
V	-0.862	-0.002	0.507				

DIM ANGL9= 3D ANGLE (COMPLEMENT) FROM CYLINDER CY-HOM-1 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	30.000	30.439	0.439	0.500	0.500	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	89.896	-0.104	0.500	0.500	0.000	---#-----

DIM ANGL11= 3D ANGLE (TRUE) FROM CYLINDER CY-HOM-1 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	60.000	59.561	-0.439	0.500	0.500	0.000	#--------

DIM LOC-HOM3= LOCATION OF POINT PT-RT-HOM-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
PR	116.000	116.286	0.286	0.200	0.200	0.086	-------->

INTERSECTION OF HOM1 & YZ PLANE

DIM LOC-HOM1 X PLANE= LOCATION OF POINT PTC-HOM1 X YZ PLANE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	----#----
Y	96.000	96.453	0.453	0.200	0.200	0.253	-------->
Z	0.000	0.176	0.176	0.200	0.200	0.000	--------#

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HOM 2 LOCATION

DIM LOC-HOM2= LOCATION OF CYLINDER CY-HOM-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-64.501	-64.501	100.000	100.000	0.000	-#-------
Y	1222.800	1219.101	-3.699	3.000	3.000	0.699	<--------
Z	0.000	-45.845	-45.845	100.000	100.000	0.000	--#------
D	44.000	43.803	-0.197	0.000	0.100	0.097	<--------
RN	0.000	0.146	0.146	0.100	0.000	0.046	-------->
V	-0.818	-0.003	-0.576				

DIM DIST2= 2D DISTANCE FROM POINT PT-HOM-2 TO PLANE PL-FAR-END PAR TO YAXIS, NO RA
DIUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	60.600	60.211	-0.389	0.200	0.200	0.189	<--------

DIM ANGL12= 3D ANGLE (TRUE) FROM CYLINDER CY-HOM-2 TO XAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	35.000	35.145	0.145	0.500	0.500	0.000	-----#---

DIM ANGL13= 3D ANGLE (COMPLEMENT) FROM CYLINDER CY-HOM-2 TO YAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	90.000	90.181	0.181	0.500	0.500	0.000	------#--

DIM ANGL14= 3D ANGLE (TRUE) FROM CYLINDER CY-HOM-2 TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	55.000	54.856	-0.144	0.500	0.500	0.000	---#-----

DIM LOC-HOM4= LOCATION OF POINT PT-HOM-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
PR	116.000	116.467	0.467	0.200	0.200	0.267	-------->

INTERSECTION OF HOM2 & YZ PLANE

DIM LOC-HOM2 X PLANE= LOCATION OF POINT PTC-HOM2 X YZ PLANE UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	----#----
Y	1222.800	1219.349	-3.451	3.000	3.000	0.451	<--------
Z	0.000	-0.438	-0.438	0.200	0.200	0.238	<--------

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

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	----#----
Y	0.000	130.397	130.397	2000.000	2000.000	0.000	----#----
Z	0.000	0.000	0.000	0.200	0.200	0.000	----#----
D	111.000	110.734	-0.266	0.200	0.200	0.066	<--------
RN	0.000	0.053	0.053	0.200	0.000	0.000	--#------

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.139	-0.139	0.200	0.200	0.000	-#-------
Y	0.000	158.859	158.859	2000.000	2000.000	0.000	----#----
Z	0.000	0.147	0.147	0.200	0.200	0.000	-------#-
D	191.200	191.236	0.036	0.200	0.200	0.000	-----#---
RN	0.000	0.103	0.103	0.200	0.000	0.000	----#----

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.236	-0.236	0.200	0.200	0.036	<--------
Y	0.000	193.441	193.441	2000.000	2000.000	0.000	----#----
Z	0.000	0.252	0.252	0.200	0.200	0.052	-------->
D	210.300	211.060	0.760	0.200	0.200	0.560	-------->
RN	0.000	0.188	0.188	0.200	0.000	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.308	-0.308	0.200	0.200	0.108	<--------
Y	0.000	202.278	202.278	2000.000	2000.000	0.000	----#----
Z	0.000	0.257	0.257	0.200	0.200	0.057	-------->
D	210.300	211.033	0.733	0.200	0.200	0.533	-------->
RN	0.000	0.120	0.120	0.200	0.000	0.000	-----#---

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.367	-0.367	0.200	0.200	0.167	<--------
Y	0.000	308.901	308.901	2000.000	2000.000	0.000	-----#---
Z	0.000	0.525	0.525	0.200	0.200	0.325	-------->
D	210.300	211.059	0.759	0.200	0.200	0.559	-------->
RN	0.000	0.282	0.282	0.200	0.000	0.082	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.362	-0.362	0.200	0.200	0.162	<--------
Y	0.000	317.503	317.503	2000.000	2000.000	0.000	-----#---
Z	0.000	0.573	0.573	0.200	0.200	0.373	-------->
D	210.300	211.015	0.715	0.200	0.200	0.515	-------->
RN	0.000	0.227	0.227	0.200	0.000	0.027	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.379	-0.379	0.200	0.200	0.179	<--------
Y	0.000	423.736	423.736	2000.000	2000.000	0.000	-----#---
Z	0.000	0.766	0.766	0.200	0.200	0.566	-------->
D	210.300	211.064	0.764	0.200	0.200	0.564	-------->
RN	0.000	0.284	0.284	0.200	0.000	0.084	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.358	-0.358	0.200	0.200	0.158	<--------
Y	0.000	432.708	432.708	2000.000	2000.000	0.000	-----#---
Z	0.000	0.745	0.745	0.200	0.200	0.545	-------->
D	210.300	211.004	0.704	0.200	0.200	0.504	-------->
RN	0.000	0.198	0.198	0.200	0.000	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.311	-0.311	0.200	0.200	0.111	<--------
Y	0.000	539.066	539.066	2000.000	2000.000	0.000	-----#---
Z	0.000	0.854	0.854	0.200	0.200	0.654	-------->
D	210.300	211.113	0.813	0.200	0.200	0.613	-------->
RN	0.000	0.258	0.258	0.200	0.000	0.058	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.311	-0.311	0.200	0.200	0.111	<--------
Y	0.000	547.758	547.758	2000.000	2000.000	0.000	-----#---
Z	0.000	0.871	0.871	0.200	0.200	0.671	-------->
D	210.300	211.022	0.722	0.200	0.200	0.522	-------->
RN	0.000	0.234	0.234	0.200	0.000	0.034	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.370	-0.370	0.200	0.200	0.170	<--------
Y	0.000	653.559	653.559	2000.000	2000.000	0.000	-----#---
Z	0.000	0.953	0.952	0.200	0.200	0.752	-------->
D	210.300	211.269	0.969	0.200	0.200	0.769	-------->
RN	0.000	0.109	0.109	0.200	0.000	0.000	----#----

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.358	-0.358	0.200	0.200	0.158	<--------
Y	0.000	662.027	662.027	2000.000	2000.000	0.000	-----#---
Z	0.000	0.965	0.965	0.200	0.200	0.765	-------->
D	210.300	211.171	0.871	0.200	0.200	0.671	-------->
RN	0.000	0.350	0.350	0.200	0.000	0.150	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.390	-0.390	0.200	0.200	0.190	<--------
Y	0.000	769.415	769.415	2000.000	2000.000	0.000	------#--
Z	0.000	0.975	0.975	0.200	0.200	0.775	-------->
D	210.300	211.149	0.849	0.200	0.200	0.649	-------->
RN	0.000	0.092	0.092	0.200	0.000	0.000	----#----

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.392	-0.392	0.200	0.200	0.192	<--------
Y	0.000	777.624	777.624	2000.000	2000.000	0.000	------#--
Z	0.000	0.974	0.974	0.200	0.200	0.774	-------->
D	210.300	211.015	0.715	0.200	0.200	0.515	-------->
RN	0.000	0.302	0.302	0.200	0.000	0.102	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.358	-0.359	0.200	0.200	0.159	<--------
Y	0.000	884.420	884.420	2000.000	2000.000	0.000	------#--
Z	0.000	0.827	0.826	0.200	0.200	0.626	-------->
D	210.300	211.111	0.811	0.200	0.200	0.611	-------->
RN	0.000	0.183	0.183	0.200	0.000	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.381	-0.381	0.200	0.200	0.181	<--------
Y	0.000	892.670	892.670	2000.000	2000.000	0.000	------#--
Z	0.000	0.822	0.822	0.200	0.200	0.622	-------->
D	210.300	211.047	0.747	0.200	0.200	0.547	-------->
RN	0.000	0.223	0.223	0.200	0.000	0.023	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.293	-0.293	0.200	0.200	0.093	<--------
Y	0.000	999.404	999.404	2000.000	2000.000	0.000	------#--
Z	0.000	0.630	0.630	0.200	0.200	0.430	-------->
D	210.300	211.079	0.779	0.200	0.200	0.579	-------->
RN	0.000	0.243	0.243	0.200	0.000	0.043	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.255	-0.255	0.200	0.200	0.055	<--------
Y	0.000	1008.299	1008.299	2000.000	2000.000	0.000	------#--
Z	0.000	0.678	0.678	0.200	0.200	0.478	-------->
D	210.300	210.992	0.692	0.200	0.200	0.492	-------->
RN	0.000	0.197	0.197	0.200	0.000	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.213	-0.213	0.200	0.200	0.013	<--------
Y	0.000	1114.321	1114.321	2000.000	2000.000	0.000	-------#-
Z	0.000	0.340	0.340	0.200	0.200	0.140	-------->
D	210.300	211.122	0.822	0.200	0.200	0.622	-------->
RN	0.000	0.250	0.250	0.200	0.000	0.050	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.249	-0.249	0.200	0.200	0.049	<--------
Y	0.000	1123.214	1123.214	2000.000	2000.000	0.000	-------#-
Z	0.000	0.235	0.235	0.200	0.200	0.035	-------->
D	210.300	210.898	0.598	0.200	0.200	0.398	-------->
RN	0.000	0.214	0.214	0.200	0.000	0.014	-------->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.065	-0.065	0.200	0.200	0.000	---#-----
Y	0.000	1153.873	1153.873	2000.000	2000.000	0.000	-------#-
Z	0.000	0.097	0.096	0.200	0.200	0.000	------#--
D	200.000	200.089	0.089	0.200	0.200	0.000	------#--
RN	0.000	0.186	0.186	0.200	0.000	0.000	--------#

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	0.000	0.000	0.200	0.200	0.000	----#----
Y	0.000	1184.132	1184.132	2000.000	2000.000	0.000	-------#-
Z	0.000	0.000	0.000	0.200	0.200	0.000	----#----
D	110.999	110.820	-0.179	0.200	0.200	0.000	#--------
RN	0.000	0.068	0.068	0.200	0.000	0.000	---#-----

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

DIM LOC-TP-CC1= TRUE POSITION OF CIRCLE CRC-DAT-1 UNITS=MM

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	0.200		0.000	0.000	#---

DIM LOC-TP-CC2= TRUE POSITION OF CIRCLE CRC-VAC-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.139	-0.139					
Z	0.000	0.147	0.147					
TP	RFS		0.404	0.200		0.000	0.204	----

---->

DIM LOC-TP-CC3= TRUE POSITION OF CIRCLE CRC-CAV-1-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.236	-0.236					
Z	0.000	0.252	0.252					
TP	RFS		0.690	0.200		0.000	0.490	----

---->

DIM LOC-TP-CC4= TRUE POSITION OF CIRCLE CRC-CAV-1-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.308	-0.308					
Z	0.000	0.257	0.257					
TP	RFS		0.802	0.200		0.000	0.602	----

---->

DIM LOC-TP-CC5= TRUE POSITION OF CIRCLE CRC-CAV-2-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.367	-0.367					
Z	0.000	0.525	0.525					
TP	RFS		1.281	0.200		0.000	1.081	----

---->

DIM LOC-TP-CC6= TRUE POSITION OF CIRCLE CRC-CAV-2-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.362	-0.362					
Z	0.000	0.573	0.573					
TP	RFS		1.357	0.200		0.000	1.157	----

---->

DIM LOC-TP-CC7= TRUE POSITION OF CIRCLE CRC-CAV-3-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.379	-0.379					
Z	0.000	0.766	0.766					
TP	RFS		1.710	0.200		0.000	1.510	----

---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.358	-0.358					
Z	0.000	0.745	0.745					
TP	RFS		1.652	0.200		0.000	1.452	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.311	-0.311					
Z	0.000	0.854	0.854					
TP	RFS		1.817	0.200		0.000	1.617	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.311	-0.311					
Z	0.000	0.871	0.871					
TP	RFS		1.849	0.200		0.000	1.649	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.370	-0.370					
Z	0.000	0.953	0.952					
TP	RFS		2.044	0.200		0.000	1.844	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.358	-0.358					
Z	0.000	0.965	0.965					
TP	RFS		2.058	0.200		0.000	1.858	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.390	-0.390					
Z	0.000	0.975	0.975					
TP	RFS		2.100	0.200		0.000	1.900	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.392	-0.392					
Z	0.000	0.974	0.974					
TP	RFS		2.099	0.200		0.000	1.899	---->

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

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.358	-0.359					
Z	0.000	0.827	0.826					
TP	RFS		1.802	0.200		0.000	1.602	---->

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DIM LOC-TP-CC16= TRUE POSITION OF CIRCLE CRC-CAV-7-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.381	-0.381					
Z	0.000	0.822	0.822					
TP	RFS		1.812	0.200		0.000	1.612	---->

DIM LOC-TP-CC17= TRUE POSITION OF CIRCLE CRC-CAV-8-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.293	-0.293					
Z	0.000	0.630	0.630					
TP	RFS		1.389	0.200		0.000	1.189	---->

DIM LOC-TP-CC18= TRUE POSITION OF CIRCLE CRC-CAV-8-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.255	-0.255					
Z	0.000	0.678	0.678					
TP	RFS		1.448	0.200		0.000	1.248	---->

DIM LOC-TP-CC19= TRUE POSITION OF CIRCLE CRC-CAV-9-1 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.213	-0.213					
Z	0.000	0.340	0.340					
TP	RFS		0.803	0.200		0.000	0.603	---->

DIM LOC-TP-CC20= TRUE POSITION OF CIRCLE CRC-CAV-9-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.249	-0.249					
Z	0.000	0.235	0.235					
TP	RFS		0.685	0.200		0.000	0.485	---->

DIM LOC-TP-CC21= TRUE POSITION OF CIRCLE CRC-VAC-2 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	BONUS	OUTTOL	
X	0.000	-0.065	-0.065					
Z	0.000	0.097	0.096					
TP	RFS		0.233	0.200		0.000	0.033	---->

DIM LOC-TP-CC22= TRUE POSITION OF CIRCLE CRC-DAT-2 UNITS=MM

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	0.200		0.000	0.000	#-----

True Position plots from 3 views
x1000

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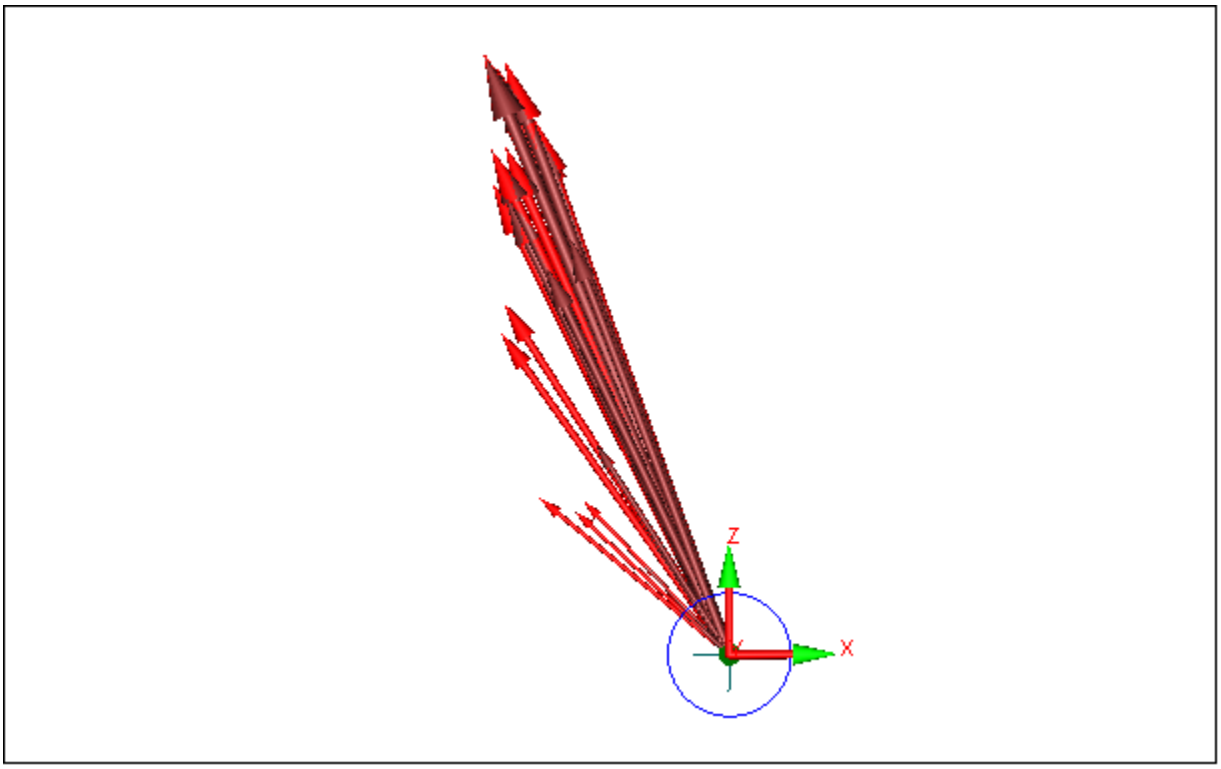
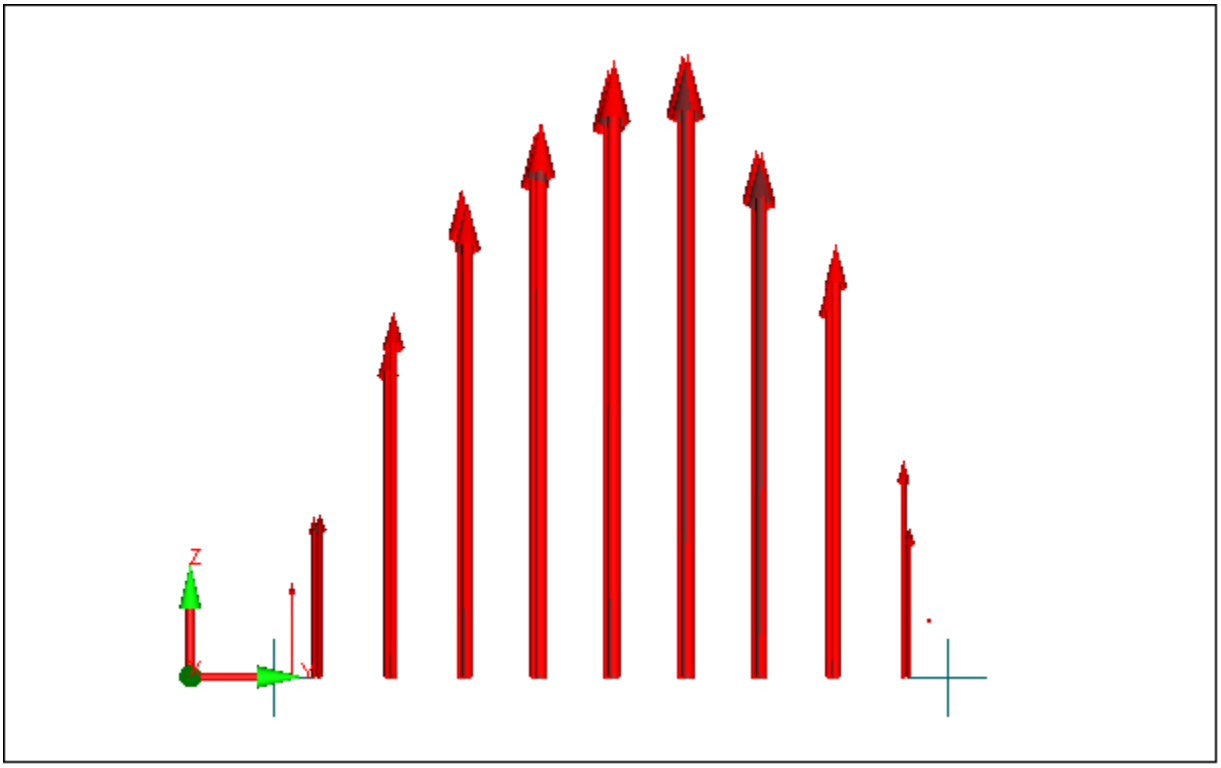
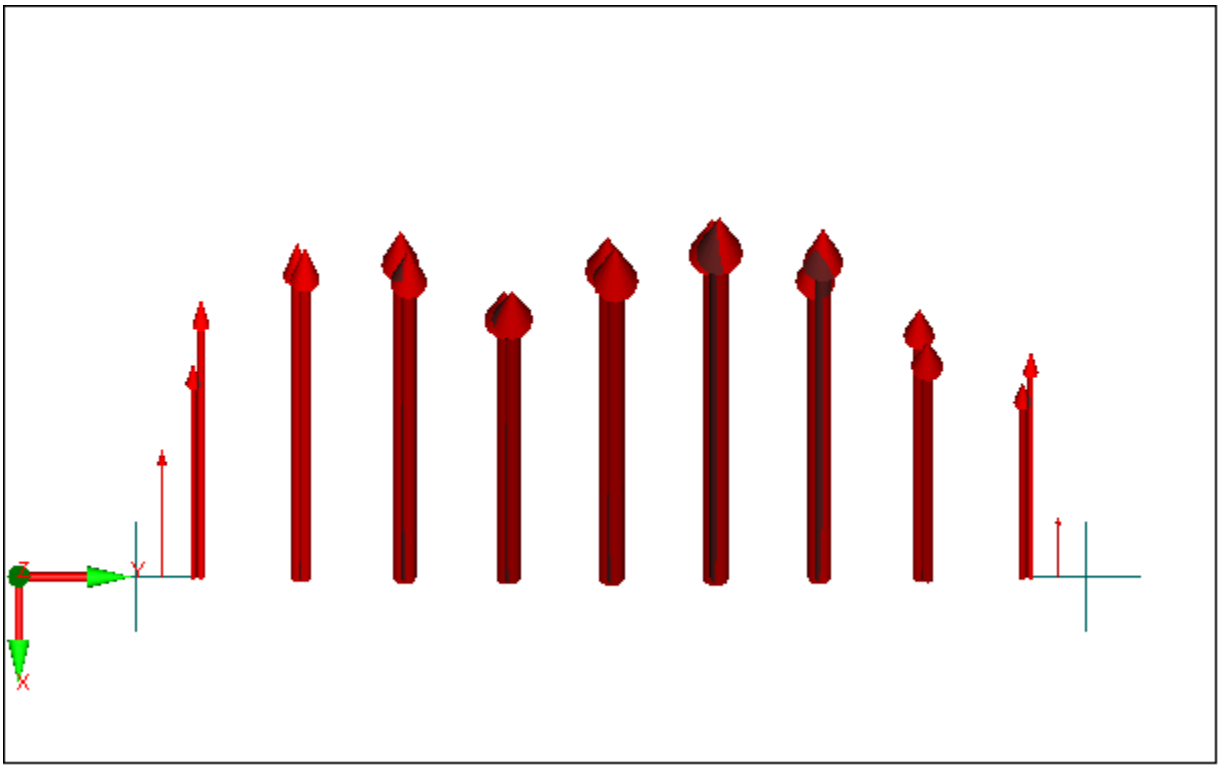


-Y View
x1000



+X View
x1000

PART NUMBER=ILC AES 1.3GHZ RF CAVITY ASSEMBLY-AES001-180-IR 090122.PRG DATE=1/23/2009 '



+Z View
x1000
DIM LOC-BEST FIT CONSTRUCTED LINE= LOCATION OF LINE LNC-BEST-FIT UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.277	-0.277	0.200	0.200	0.077	<--------
Y	0.000	658.073	658.073	2000.000	2000.000	0.000	-----#---
Z	0.000	0.567	0.567	0.200	0.200	0.367	-------->
ST	0.000	1.064	1.064	0.200	0.000	0.864	-------->

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SUPPORT RING CIRCLE LOCATIONS

DIM LOC-SUPPORT RING-1= LOCATION OF CIRCLE CR-SUPPORT-RING-T12 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.080	-0.080	0.200	0.200	0.000	--#------
Y	0.000	254.573	254.573	2000.000	2000.000	0.000	-----#---
Z	0.000	0.342	0.342	0.200	0.200	0.142	-------->
R	56.500	56.453	-0.047	0.200	0.200	0.000	---#-----
RN	0.000	0.087	0.087	0.200	0.000	0.000	---#-----

DIM LOC-SUPPORT RING-2= LOCATION OF CIRCLE CR-SUPPORT-RING-T23 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.179	-0.179	0.200	0.200	0.000	#--------
Y	0.000	369.703	369.703	2000.000	2000.000	0.000	-----#---
Z	0.000	0.585	0.585	0.200	0.200	0.385	-------->
R	56.500	56.584	0.084	0.200	0.200	0.000	------#--
RN	0.000	0.006	0.006	0.200	0.000	0.000	#--------

DIM LOC-SUPPORT RING-3= LOCATION OF CIRCLE CR-SUPPORT-RING-T34 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.550	-0.550	0.200	0.200	0.350	<--------
Y	0.000	485.034	485.034	2000.000	2000.000	0.000	-----#---
Z	0.000	0.639	0.639	0.200	0.200	0.439	-------->
R	56.500	56.817	0.317	0.200	0.200	0.117	-------->
RN	0.000	0.157	0.157	0.200	0.000	0.000	-------#-

DIM LOC-SUPPORT RING-4= LOCATION OF CIRCLE CR-SUPPORT-RING-T45 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.458	-0.458	0.200	0.200	0.258	<--------
Y	0.000	600.369	600.369	2000.000	2000.000	0.000	-----#---
Z	0.000	0.876	0.876	0.200	0.200	0.676	-------->
R	56.500	56.676	0.176	0.200	0.200	0.000	--------#
RN	0.000	0.143	0.143	0.200	0.000	0.000	------#--

DIM LOC-SUPPORT RING-5= LOCATION OF CIRCLE CR-SUPPORT-RING-T56 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.855	-0.855	0.200	0.200	0.655	<--------
Y	0.000	715.469	715.469	2000.000	2000.000	0.000	------#--
Z	0.000	0.968	0.967	0.200	0.200	0.767	-------->
R	56.500	57.006	0.506	0.200	0.200	0.306	-------->
RN	0.000	0.024	0.024	0.200	0.000	0.000	-#-------

DIM LOC-SUPPORT RING-6= LOCATION OF CIRCLE CR-SUPPORT-RING-T67 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.664	-0.664	0.200	0.200	0.464	<--------
Y	0.000	830.667	830.667	2000.000	2000.000	0.000	------#--
Z	0.000	0.940	0.940	0.200	0.200	0.740	-------->
R	56.500	56.840	0.340	0.200	0.200	0.140	-------->
RN	0.000	0.008	0.008	0.200	0.000	0.000	#--------

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DIM LOC-SUPPORT RING-7= LOCATION OF CIRCLE CR-SUPPORT-RING-T78 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.702	-0.702	0.200	0.200	0.502	<--------
Y	0.000	945.569	945.569	2000.000	2000.000	0.000	------#--
Z	0.000	0.783	0.783	0.200	0.200	0.583	-------->
R	56.500	56.909	0.409	0.200	0.200	0.209	-------->
RN	0.000	0.023	0.023	0.200	0.000	0.000	-#-------

DIM LOC-SUPPORT RING-8= LOCATION OF CIRCLE CR-SUPPORT-RING-T89 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	0.000	-0.268	-0.268	0.200	0.200	0.068	<--------
Y	0.000	1060.870	1060.870	2000.000	2000.000	0.000	------#--
Z	0.000	0.257	0.257	0.200	0.200	0.057	-------->
R	56.500	56.768	0.268	0.200	0.200	0.068	-------->
RN	0.000	0.191	0.191	0.200	0.000	0.000	--------#

SUPPORT RING POINT LOCATIONS

DIM LOC-SUPPORT RING-PT1= LOCATION OF POINT PT-SUPPORT-RING-T12 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.615	0.115	0.200	0.200	0.000	-------#-
Y	0.000	248.572	248.572	2000.000	2000.000	0.000	-----#---
Z	0.000	-0.312	-0.312	0.200	0.200	0.112	<--------

DIM LOC-SUPPORT RING-PT2= LOCATION OF POINT PT-SUPPORT-RING-T23 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.456	-0.044	0.200	0.200	0.000	---#-----
Y	0.000	363.802	363.802	2000.000	2000.000	0.000	-----#---
Z	0.000	-0.321	-0.321	0.200	0.200	0.121	<--------

DIM LOC-SUPPORT RING-PT3= LOCATION OF POINT PT-SUPPORT-RING-T34 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.383	-0.117	0.200	0.200	0.000	-#-------
Y	0.000	479.072	479.072	2000.000	2000.000	0.000	-----#---
Z	0.000	-0.330	-0.330	0.200	0.200	0.130	<--------

DIM LOC-SUPPORT RING-PT4= LOCATION OF POINT PT-SUPPORT-RING-T45 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.243	-0.257	0.200	0.200	0.057	<--------
Y	0.000	594.472	594.472	2000.000	2000.000	0.000	-----#---
Z	0.000	-0.340	-0.340	0.200	0.200	0.140	<--------

DIM LOC-SUPPORT RING-PT5= LOCATION OF POINT PT-SUPPORT-RING-T56 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.373	-0.127	0.200	0.200	0.000	-#-------
Y	0.000	709.472	709.472	2000.000	2000.000	0.000	------#--
Z	0.000	-0.349	-0.349	0.200	0.200	0.149	<--------

DIM LOC-SUPPORT RING-PT6= LOCATION OF POINT PT-SUPPORT-RING-T67 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.283	-0.217	0.200	0.200	0.017	<--------
Y	0.000	824.772	824.772	2000.000	2000.000	0.000	------#--
Z	0.000	-0.358	-0.358	0.200	0.200	0.158	<--------

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DIM LOC-SUPPORT RING-PT7= LOCATION OF POINT PT-SUPPORT-RING-T78 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.257	-0.243	0.200	0.200	0.043	<--------
Y	0.000	939.572	939.572	2000.000	2000.000	0.000	------#--
Z	0.000	-0.368	-0.368	0.200	0.200	0.168	<--------

DIM LOC-SUPPORT RING-PT8= LOCATION OF POINT PT-SUPPORT-RING-T89 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.631	0.131	0.200	0.200	0.000	-------#-
Y	0.000	1054.972	1054.972	2000.000	2000.000	0.000	------#--
Z	0.000	-0.377	-0.377	0.200	0.200	0.177	<--------

SUPPORT RING CIRCLES IN Z

DIM LOC Z SUPPORT RING CIRCLES 1= LOCATION OF CIRCLE CR-SUPPORT-RING-T12 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.342	0.342	0.200	0.200	0.142	-------->

DIM LOC Z SUPPORT RING CIRCLES 2= LOCATION OF CIRCLE CR-SUPPORT-RING-T23 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.585	0.585	0.200	0.200	0.385	-------->

DIM LOC Z SUPPORT RING CIRCLES 3= LOCATION OF CIRCLE CR-SUPPORT-RING-T34 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.639	0.639	0.200	0.200	0.439	-------->

DIM LOC Z SUPPORT RING CIRCLES 4= LOCATION OF CIRCLE CR-SUPPORT-RING-T45 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.876	0.876	0.200	0.200	0.676	-------->

DIM LOC Z SUPPORT RING CIRCLES 5= LOCATION OF CIRCLE CR-SUPPORT-RING-T56 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.968	0.967	0.200	0.200	0.767	-------->

DIM LOC Z SUPPORT RING CIRCLES 6= LOCATION OF CIRCLE CR-SUPPORT-RING-T67 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.940	0.940	0.200	0.200	0.740	-------->

DIM LOC Z SUPPORT RING CIRCLES 7= LOCATION OF CIRCLE CR-SUPPORT-RING-T78 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.783	0.783	0.200	0.200	0.583	-------->

DIM LOC Z SUPPORT RING CIRCLES 8= LOCATION OF CIRCLE CR-SUPPORT-RING-T89 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
Z	0.000	0.257	0.257	0.200	0.200	0.057	-------->

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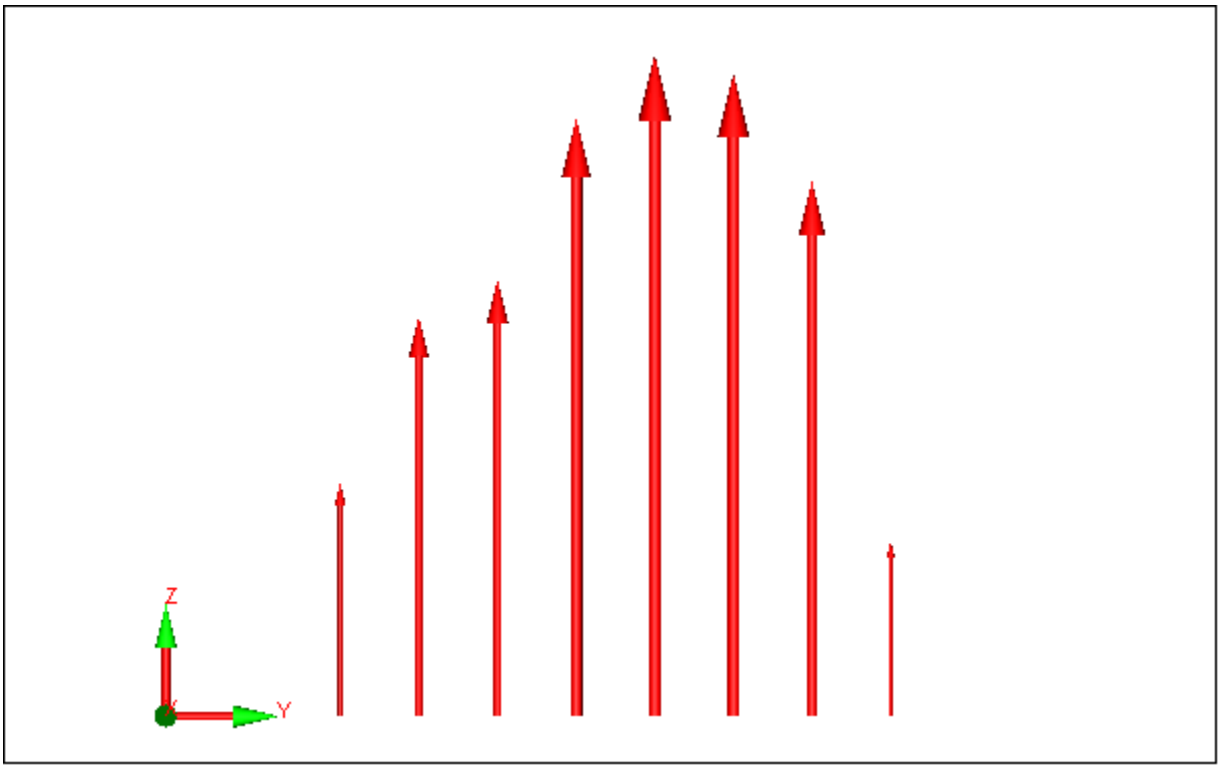

SUPPORT RING CIRCLES IN Z
x1000

SUPPORT RING POINTS IN X

DIM LOC Z SUPPORT RING POINTS 1= LOCATION OF POINT PT-SUPPORT-RING-T12 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.615	0.115	0.200	0.200	0.000	-------#-

DIM LOC Z SUPPORT RING POINTS 2= LOCATION OF POINT PT-SUPPORT-RING-T23 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.456	-0.044	0.200	0.200	0.000	---#-----

DIM LOC Z SUPPORT RING POINTS 3= LOCATION OF POINT PT-SUPPORT-RING-T34 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.383	-0.117	0.200	0.200	0.000	-#-------

DIM LOC Z SUPPORT RING POINTS 4= LOCATION OF POINT PT-SUPPORT-RING-T45 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.243	-0.257	0.200	0.200	0.057	<--------

DIM LOC Z SUPPORT RING POINTS 5= LOCATION OF POINT PT-SUPPORT-RING-T56 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.373	-0.127	0.200	0.200	0.000	-#-------

DIM LOC Z SUPPORT RING POINTS 6= LOCATION OF POINT PT-SUPPORT-RING-T67 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.283	-0.217	0.200	0.200	0.017	<--------

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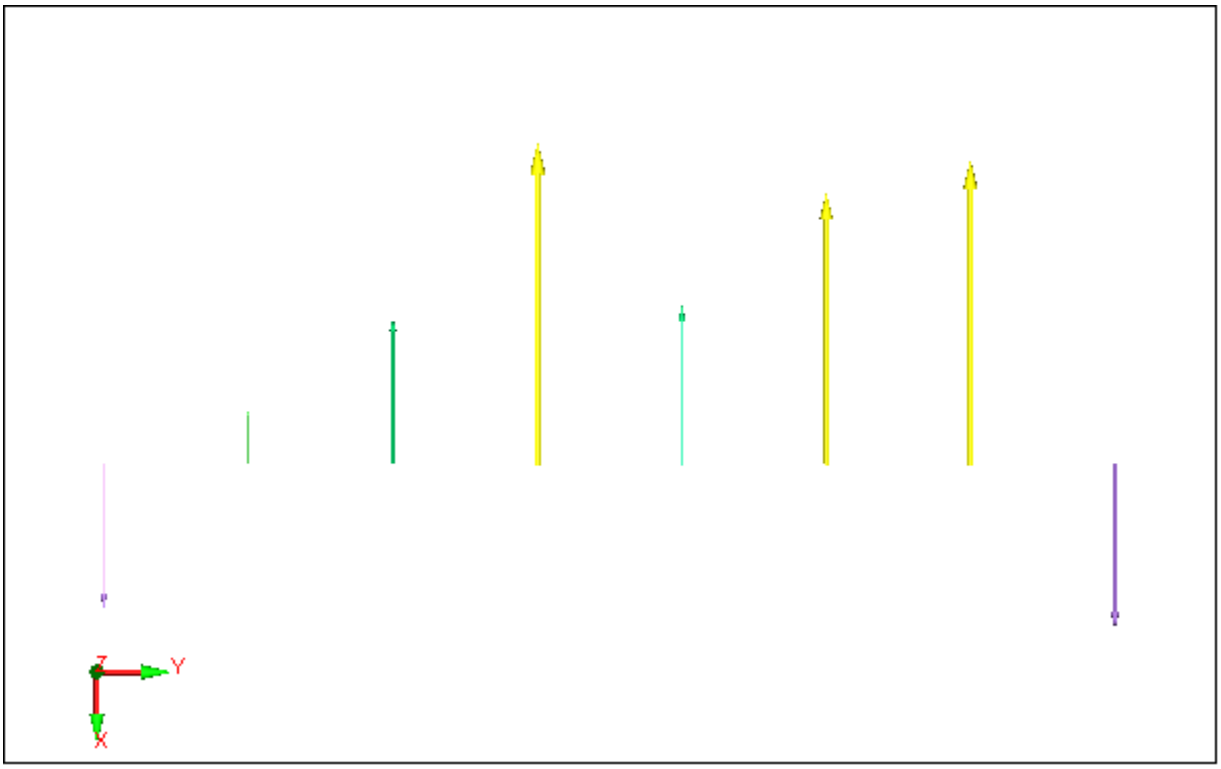
DIM LOC Z SUPPORT RING POINTS 7= LOCATION OF POINT PT-SUPPORT-RING-T78 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.257	-0.243	0.200	0.200	0.043	<--------

DIM LOC Z SUPPORT RING POINTS 8= LOCATION OF POINT PT-SUPPORT-RING-T89 UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
X	56.500	56.631	0.131	0.200	0.200	0.000	-------#-



SUPPORT RING POINTS IN Z
x1000

DIM ANGL15= 2D ANGLE (TRUE) FROM LINE LNC-FOR 180 OFFSET TO ZAXIS

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
A	15.000	15.431	0.431	0.500	0.500	0.000	--------#

(9) ANGLE I: 0.2631146 - 15.25495207
     ANGLE K: 0.9647646
(7) ANGLE I: 0.2588121 - 14.99958804
     ANGLE K: 0.9659277
(6) ANGLE I: 0.2439225 - 14.11816578
     ANGLE K: 0.9697947

DIM DIST3= 2D DISTANCE FROM PLANE PL-NW12-FLANGE-HOM2 TO PLANE PL-NW12-FLANGE-HOM3 P
AR TO YAXIS, NO_RADIUS UNITS=MM

AX	NOMINAL	MEAS	DEV	+TOL	-TOL	OUTTOL	
M	1283.400	1275.365	-8.035	0.200	0.200	7.835	<--------

END OF MEASUREMENT FOR
PN=ILC AES 1.3GHZ RF CAVITY ASSEMBLY-AES001-180-IR 090122.PRG DWG
= SN=
TOTAL # OF MEAS =0 # OUT OF TOL =0