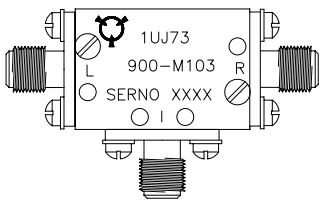
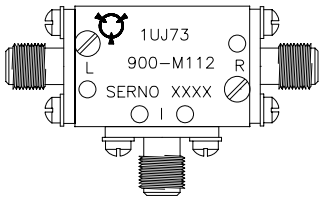
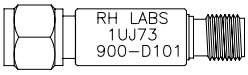
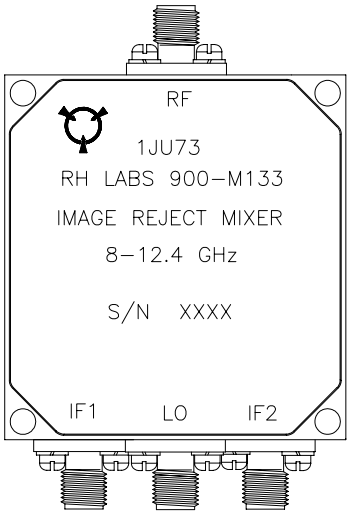
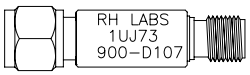
MIXERS & DETECTORS CATALOG

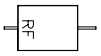


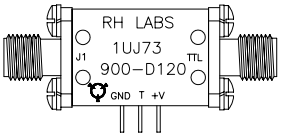


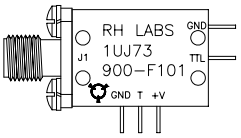


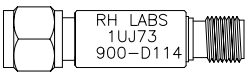












LABORATORIES, INC.

One Tanguay Avenue
Nashua, New Hampshire 03063-1711
Phone: 603-459-5900
Fax: 603-459-5901

Contents

MICROWAVE MIXERS:

RH Labs Part Number	LO and RF Frequency Range	LO Drive Level	IF Frequency Range	Page .
900-M101	2.0 GHz – 18.0 GHz	+7dBM to +10dBM	DC to 850 MHz	4
900-M102	2.0 GHz – 18.0 GHz	+11dBM to +13dBM	DC to 850 MHz	4
900-M103	2.0 GHz – 18.0 GHz	+14dBM to +17dBM	DC to 850 MHz	4
900-M104	2.0 GHz – 18.0 GHz	+7dBM to +10dBM	0.7 to 6.0 GHz	5
900-M105	2.0 GHz –1 8.0 GHz	+11dBM to +13dBM	0.7 to 6.0 GHz	5
900-M106	2.0 GHz – 18.0 GHz	+14dBM to +17dBM	0.7 to 6.0 GHz	5
900-M107	2.0 GHz – 8.0 GHz	+7dBM to +10dBM	DC to 850 MHz	6
900-M108	2.0 GHz – 8.0 GHz	+11dBM to +13dBM	DC to 850 MHz	6
900-M109	2.0 GHz – 8.0 GHz	+14dBM to +17dBM	DC to 850 MHz	6
900-M110	2.0 GHz – 8.0 GHz	+7dBM to +10dBM	0.7 to 6.0 GHz	7
900-M111	2.0 GHz – 8.0 GHz	+11dBM to +13dBM	0.7 to 6.0 GHz	7
900-M112	2.0 GHz – 8.0 GHz	+14dBM to +17dBM	0.7 to 6.0 GHz	7
900-M113	8.0 GHz – 18.0 GHz	+7dBM to +10dBM	DC to 850 MHz	8
900-M114	8.0 GHz – 18.0 GHz	+11dBM to +13dBM	DC to 850 MHz	8
900-M115	80 GHz – 18.0 GHz	+14dBM to +17dBM	DC to 850 MHz	8
900-M116	8.0 GHz – 18.0 GHz	+7dBM to +10dBM	0.7 to 6.0 GHz	9
900-M117	8.0 GHz –1 8.0 GHz	+11dBM to +13dBM	0.7 to 6.0 GHz	9
900-M118	8.0 GHz – 18.0 GHz	+14dBM to +17dBM	0.7 to 6.0 GHz	9

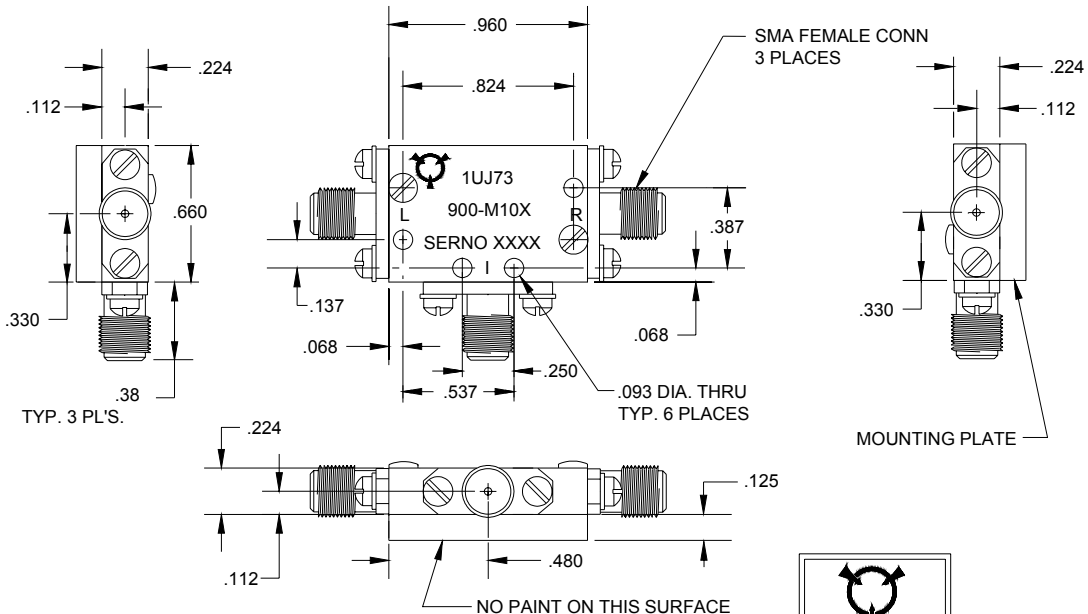
MICROWAVE DETECTORS:

RH Labs Part Number	Detector Type	RF Frequency Range	Package	Page .
930-D101	Zero Bias (ZBD)	1.0 GHz to 18.0 GHz	Coaxial	10
930-D102	Zero Bias (ZBD	1.0 GHz to 18.0 GHz	Module	11
930-D103	Zero Bias (ZBD)	2.0 GHz to 8.0 GHz	Coaxial	12
930-D104	Zero Bias (ZBD	2.0 GHz to 8.0 GHz	Module	13
930-D105	Zero Bias (ZBD)	8.0 GHz to 18.0 GHz	Coaxial	14
930-D106	Zero Bias (ZBD	8.0 GHz to 18.0 GHz	Module	15
930-D107	Tunnel Diode	1.0 GHz to 18.0 GHz	Coaxial	16
930-D108	Tunnel Diode	1.0 GHz to 18.0 GHz	Module	17
930-D109	Tunnel Diode	2.0 GHz to 8.0 GHz	Coaxial	18
930-D110	Tunnel Diode	2.0 GHz to 8.0 GHz	Module	19
930-D111	Tunnel Diode	8.0 GHz to 18.0 GHz	Coaxial	20
930-D112	Tunnel Diode	8.0 GHz to 18.0 GHz	Module	21
930-D133	Tunnel Diode	6.0 GHz to 18.0 GHz	Coaxial	22
930-D113	Biased Schottky	1.0 GHz to 18.0 GHz	Coaxial	23
930-D114	Biased Schottky	1.0 GHz to 18.0 GHz	Module	24
930-D115	Biased Schottky	2.0 GHz to 8.0 GHz	Coaxial	25
930-D116	Biased Schottky	2.0 GHz to 8.0 GHz	Module	26
930-D117	Biased Schottky	8.0 GHz to 18.0 GHz	Coaxial	27
930-D118	Biased Schottky	8.0 GHz to 18.0 GHz	Module	28

Threshold Detectors:

RH Labs Part Number	Detector Type	RF Frequency Range	Package	Page .
900-F101	Threshold Detector	2.5 GHz to 7.0 GHz	Connectorized	29

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



NOTES:

1. MATERIAL: HOUSING AND COVERS
   ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D,
   PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS:
   "L", "R", "I", "1JU73", "900-M10X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

SPECIFICATIONS

LO & RF INPUT FREQUENCY:	2.0 TO 18.0 GHz
IF OUTPUT FREQUENCY:	DC TO 850 MHz
LO DRIVE (900-M101):	+7 dBM TO +10 dBM
LO DRIVE (900-M102):	+11 dBM TO +13 dBM
LO DRIVE (900-M103):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 9.0 dB MAX.
LO TO RF ISOLATION:	30 dB TYP. 24 dB MIN.
LO TO IF ISOLATION:	35 dB TYP. 30 dB MIN.
VSWR:	
LO:	3.5:1 MAX.
RF:	2.8:1 MAX.
IF:	2.3:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M101:	+2 dBM TYP.
900-M102:	+6 dBM TYP.
900-M103:	+9 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M101:	+13 dBM TYP.
900-M102:	+16 dBM TYP.
900-M103:	+19 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

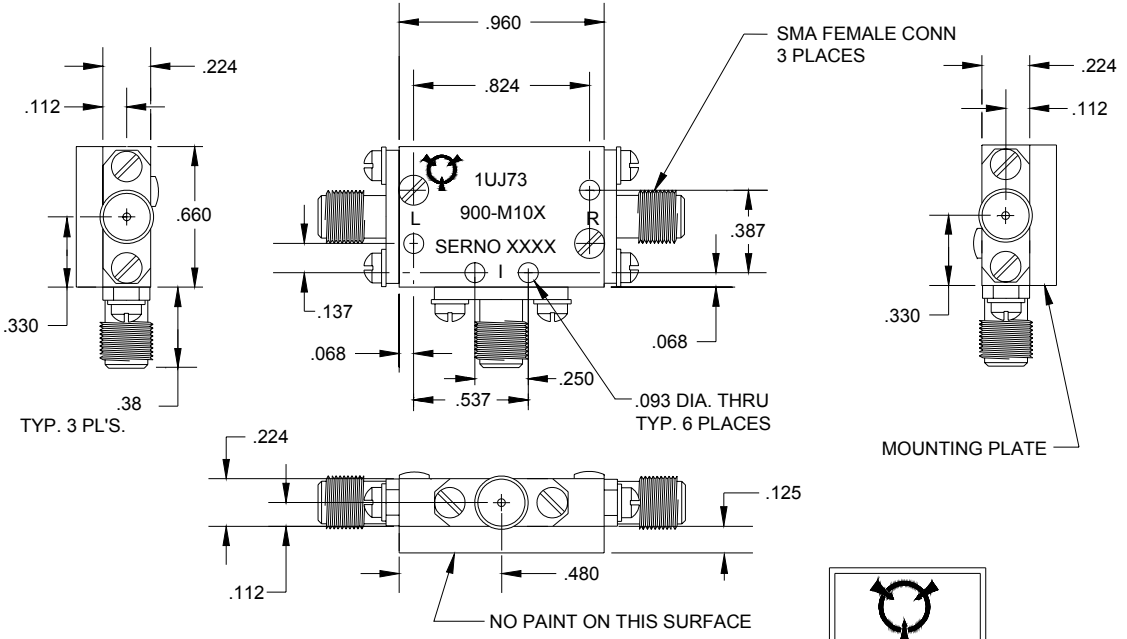
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M101/102/103

SCALE 2:1 SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



NOTES:

1. MATERIAL: HOUSING AND COVERS
   ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D,
   PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS:
   "L", "R", "I", "1JU73", "900-M10X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

SPECIFICATIONS

LO & RF INPUT FREQUENCY:	2.0 TO 18.0 GHz
IF OUTPUT FREQUENCY:	0.7 TO 6.0 GHz
LO DRIVE (900-M104):	+7 dBM TO +10 dBM
LO DRIVE (900-M105):	+11 dBM TO +13 dBM
LO DRIVE (900-M106):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 9.5 dB MAX.
LO TO RF ISOLATION:	28 dB TYP. 23 dB MIN.
LO TO IF ISOLATION:	25 dB TYP. 20 dB MIN.
VSWR:	
LO:	3.5:1 MAX.
RF:	2.7:1 MAX.
IF:	2.2:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M104:	+3 dBM TYP.
900-M105:	+7 dBM TYP.
900-M106:	+10 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M104:	+15 dBM TYP.
900-M105:	+17 dBM TYP.
900-M106:	+20 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

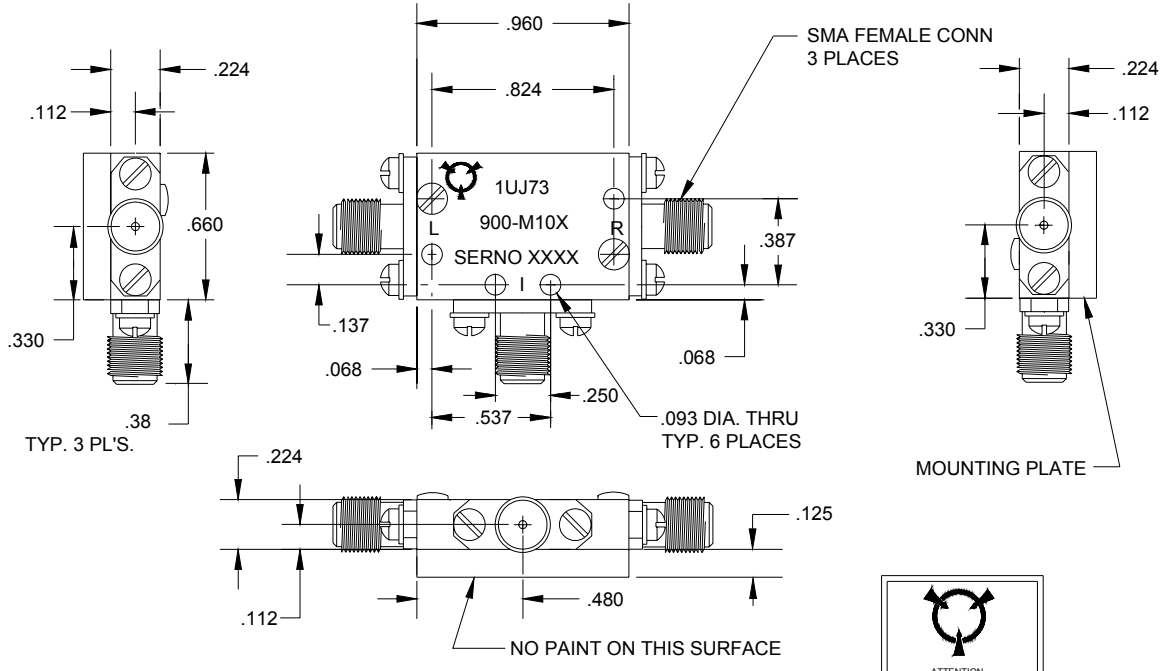
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M104/105/106

SCALE 2:1 SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

SPECIFICATIONS

LO & RF INPUT FREQUENCY:	2.0 TO 8.0 GHz
IF OUTPUT FREQUENCY:	DC TO 850 MHz
LO DRIVE (900-M107):	+7 dBM TO +10 dBM
LO DRIVE (900-M108):	+11 dBM TO +13 dBM
LO DRIVE (900-M109):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 8.5 dB MAX.
LO TO RF ISOLATION:	30 dB TYP. 24 dB MIN.
LO TO IF ISOLATION:	35 dB TYP. 30 dB MIN.
VSWR:	
LO:	3.0:1 MAX.
RF:	2.8:1 MAX.
IF:	2.3:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M107:	+2 dBM TYP.
900-M108:	+6 dBM TYP.
900-M109:	+9 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M107:	+13 dBM TYP.
900-M108:	+16 dBM TYP.
900-M109:	+19 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

NOTES:

1. MATERIAL: HOUSING AND COVERS ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D, PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS: "L", "R", "I", "1JU73", "900-M10X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

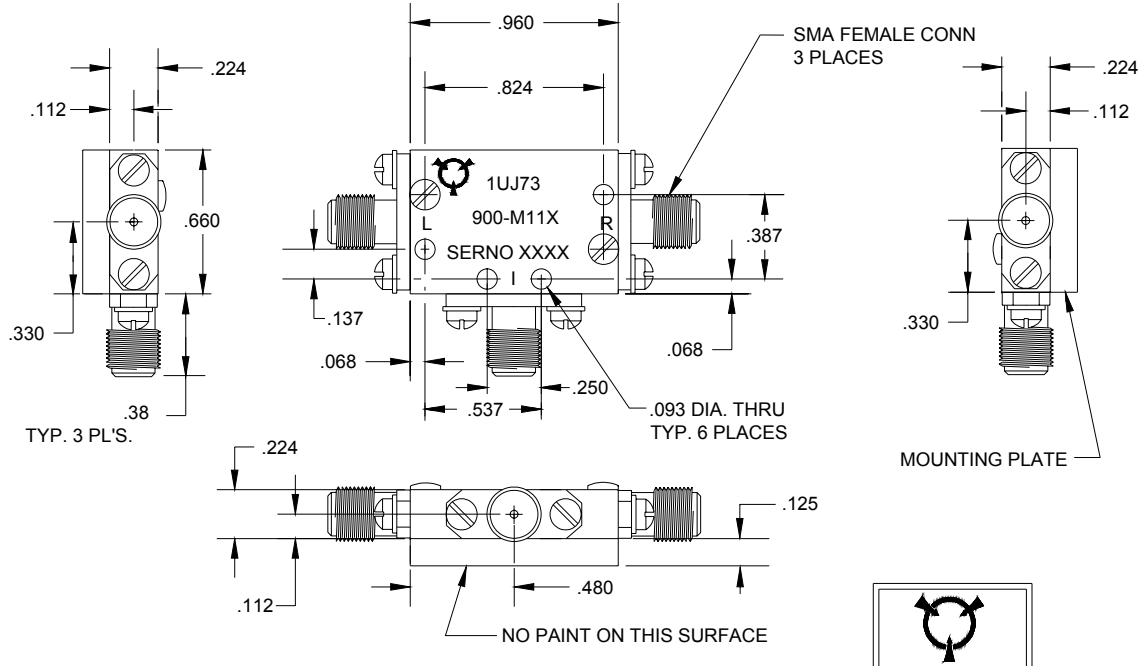
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M107/108/109

SCALE 2:1 SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

LO & RF INPUT FREQUENCY:	2.0 TO 8.0 GHz
IF OUTPUT FREQUENCY:	0.7 TO 6.0 GHz
LO DRIVE (900-M110):	+7 dBM TO +10 dBM
LO DRIVE (900-M111):	+11 dBM TO +13 dBM
LO DRIVE (900-M112):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 9.0 dB MAX.
LO TO RF ISOLATION:	28 dB TYP. 23 dB MIN.
LO TO IF ISOLATION:	25 dB TYP. 20 dB MIN.
VSWR:	
LO:	3.5:1 MAX.
RF:	2.7:1 MAX.
IF:	2.2:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M110:	+3 dBM TYP.
900-M111:	+7 dBM TYP.
900-M112:	+10 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M110:	+15 dBM TYP.
900-M111:	+17 dBM TYP.
900-M112:	+20 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

NOTES:

1. MATERIAL: HOUSING AND COVERS ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D, PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS: "L", "R", "I", "1JU73", "900-M11X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

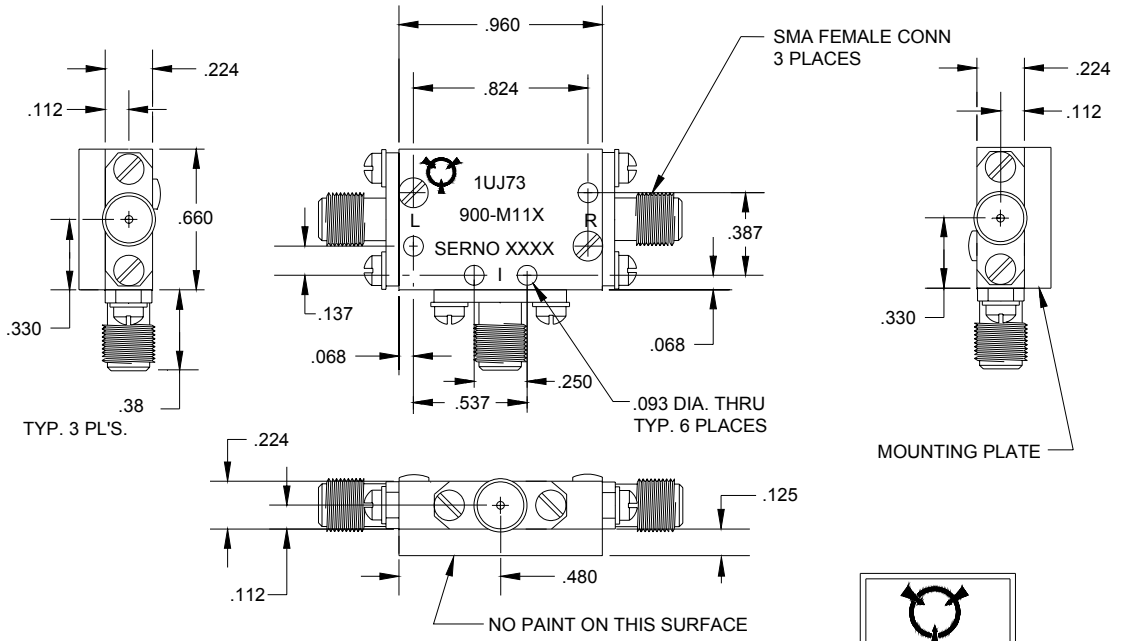
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M110/111/112

SCALE 2:1 SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

LO & RF INPUT FREQUENCY:	8.0 TO 18.0 GHz
IF OUTPUT FREQUENCY:	DC TO 850 MHz
LO DRIVE (900-M113):	+7 dBM TO +10 dBM
LO DRIVE (900-M114):	+11 dBM TO +13 dBM
LO DRIVE (900-M115):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 9.0 dB MAX.
LO TO RF ISOLATION:	30 dB TYP. 24 dB MIN.
LO TO IF ISOLATION:	35 dB TYP. 30 dB MIN.
VSWR:	
LO:	3.5:1 MAX.
RF:	2.8:1 MAX.
IF:	2.3:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M113:	+2 dBM TYP.
900-M114:	+6 dBM TYP.
900-M115:	+9 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M113:	+13 dBM TYP.
900-M114:	+16 dBM TYP.
900-M115:	+19 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

NOTES:

1. MATERIAL: HOUSING AND COVERS ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D, PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS: "L", "R", "I", "1JU73", "900-M11X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

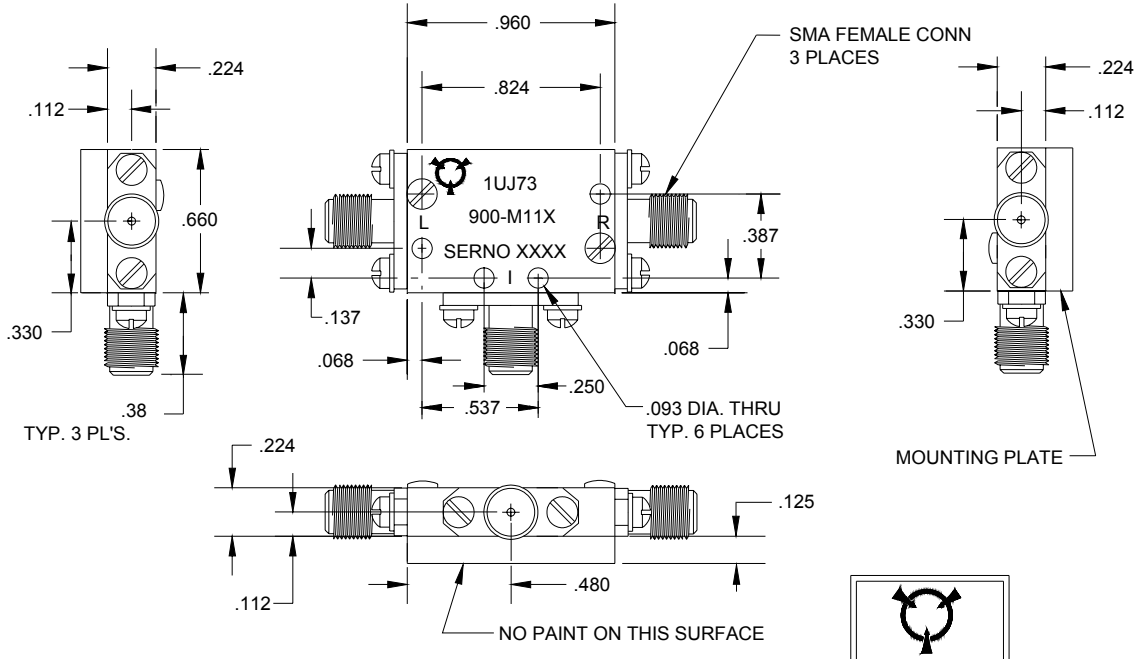
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M113/114/115

SCALE 2:1 SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



NOTES:

1. MATERIAL: HOUSING AND COVERS
   ALUMINUM ALLOY. CONNECTORS, CRES
2. FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D,
   PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
3. MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
4. MARKING: BLACK EPOXY INK AS FOLLOWS:
   "L", "R", "I", "1JU73", "900-M11X", "SERNO XXX".
5. DATE CODE ON SIDE OF HOUSING. (YYWW)

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC
SENSITIVE
DEVICES

SPECIFICATIONS

LO & RF INPUT FREQUENCY:	8.0 TO 18.0 GHz
IF OUTPUT FREQUENCY:	0.7 TO 6.0 GHz
LO DRIVE (900-M116):	+7 dBM TO +10 dBM
LO DRIVE (900-M117):	+11 dBM TO +13 dBM
LO DRIVE (900-M118):	+14 dBM TO +17 dBM
SSB CONVERSION LOSS:	6.5 dB TYP. 9.5 dB MAX.
LO TO RF ISOLATION:	28 dB TYP. 23 dB MIN.
LO TO IF ISOLATION:	25 dB TYP. 20 dB MIN.
VSWR:	
LO:	3.5:1 MAX.
RF:	2.7:1 MAX.
IF:	2.2:1 TYP.
INPUT 1dB COMPRESSION POINT:	
900-M116:	+3 dBM TYP.
900-M117:	+7 dBM TYP.
900-M118:	+10 dBM TYP.
INPUT TWO-TONE THIRD ORDER INTERCEPT POINT:	
900-M116:	+15 dBM TYP.
900-M117:	+17 dBM TYP.
900-M118:	+20 dBM TYP.
OPERATING TEMPERATURE:	-55°C TO +100°C

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/28/02
CHKD		
PROD		
ENGR	R.A.J.	8/28/02
QA		

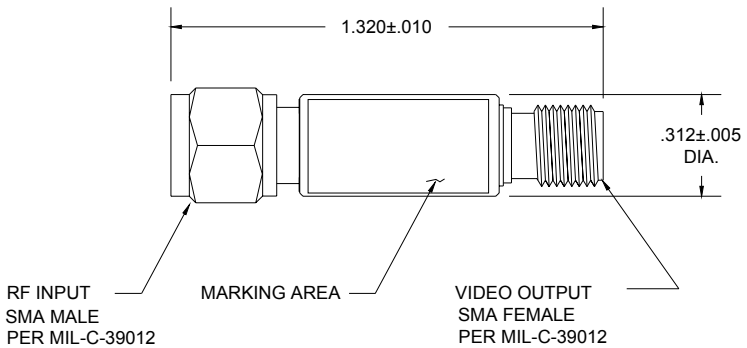
RH LABORATORIES, INC.

TITLE: MIXER OUTLINE

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-M116/117/118

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.2 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

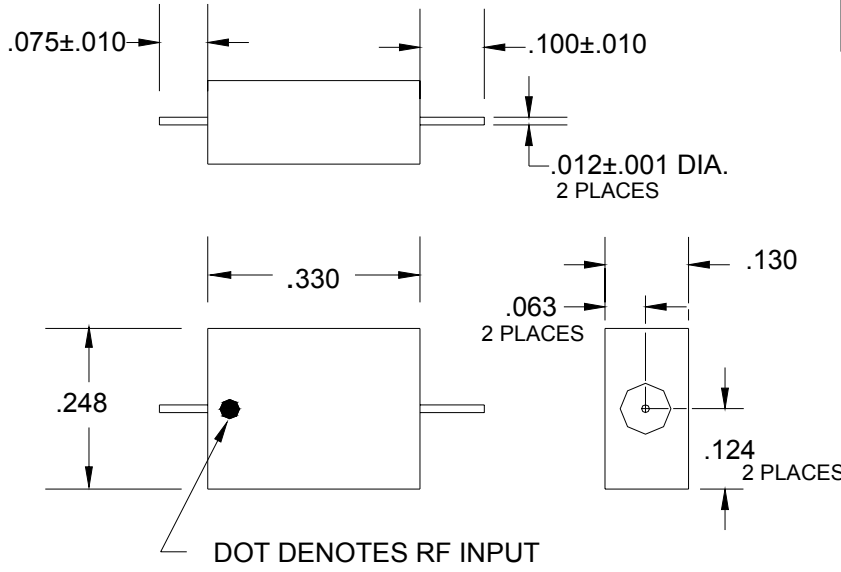
DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

RH LABORATORIES, INC.

TITLE: ZERO BIAS DETECTOR

SIZE	CAGE CODE	DWG NO	
A	1UJ73	OD930-D101	
SCALE 2:1			SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.2 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

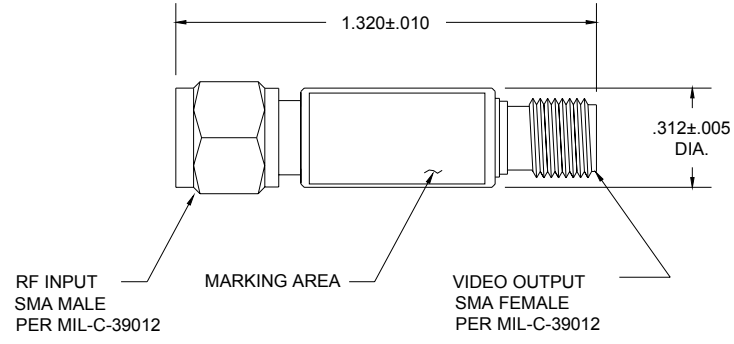
RH LABORATORIES, INC.

TITLE: ZERO BIAS DETECTOR

SIZE A | CAGE CODE 1UJ73 | DWG NO OD930-D102

SCALE 4:1 | SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	2000 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.6 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

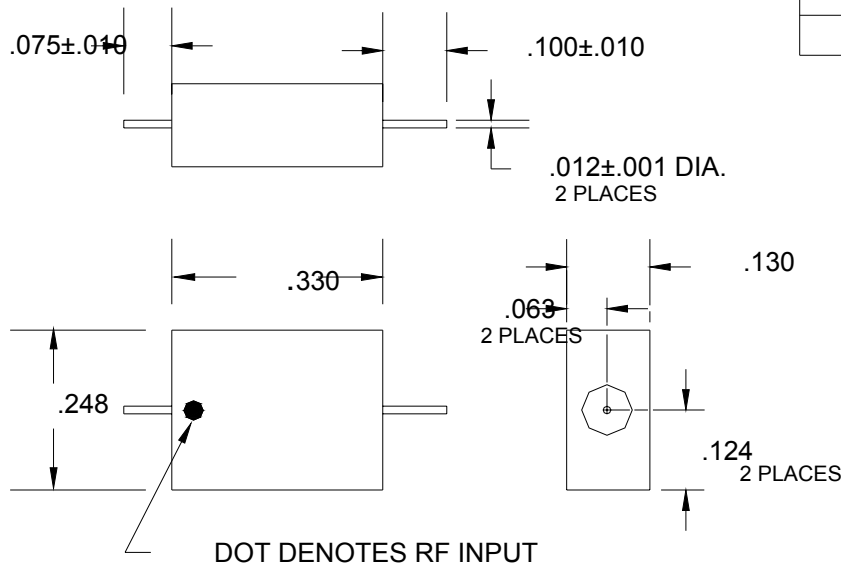
RH LABORATORIES, INC.

TITLE: ZERO BIAS DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D103

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	2000 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.6 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS; ±.005
2 PLACE DECIMALS; ±.01
1 PLACE DECIMALS; ±.1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

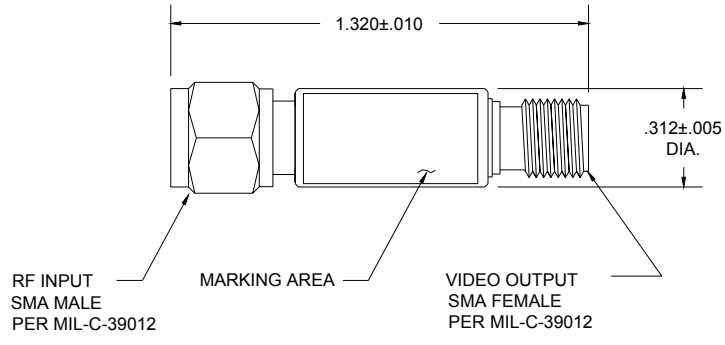
RH LABORATORIES, INC.

TITLE: ZERO BIAS DETECTOR

SIZE A | CAGE CODE 1UJ73 | DWG NO OD930-D104

SCALE 4:1 | SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.7 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

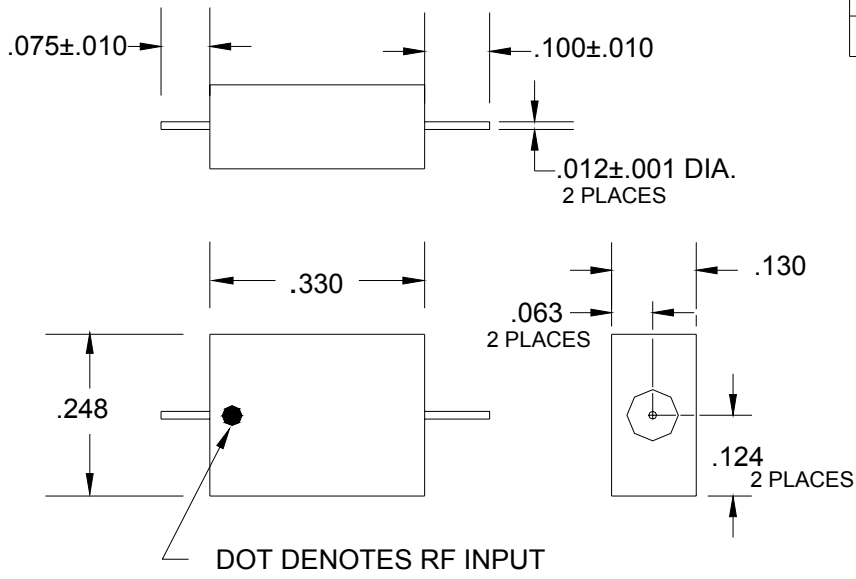
RH LABORATORIES, INC.

TITLE
ZERO BIAS DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D105

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +10.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.7 dB
TSS:	-52 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

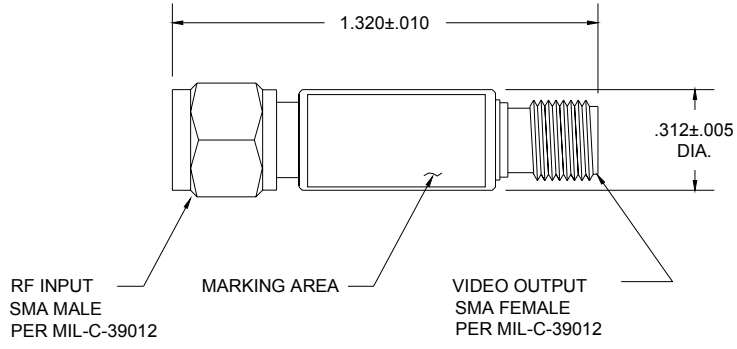
RH LABORATORIES, INC.

TITLE: ZERO BIAS DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D106

SCALE 4:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	600 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.3 dB
RF INPUT VSWR:	2.8:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

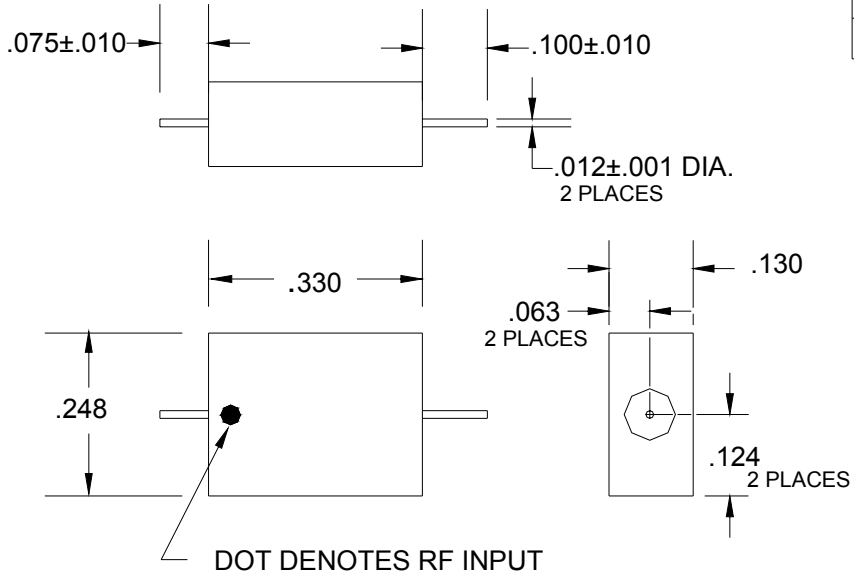
RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D107

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	600 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.3 dB
RF INPUT VSWR:	2.8:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

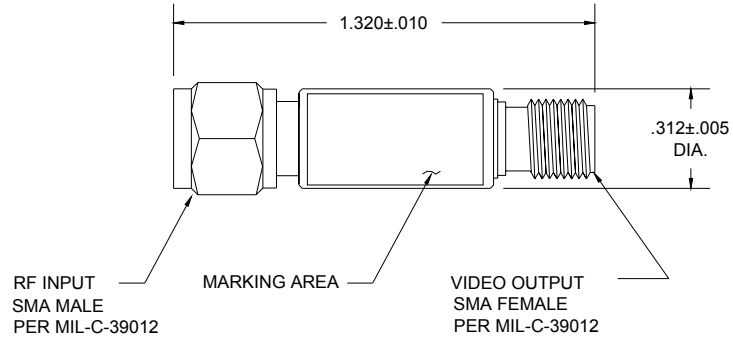
RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D108

SCALE 4:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.5 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	30 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

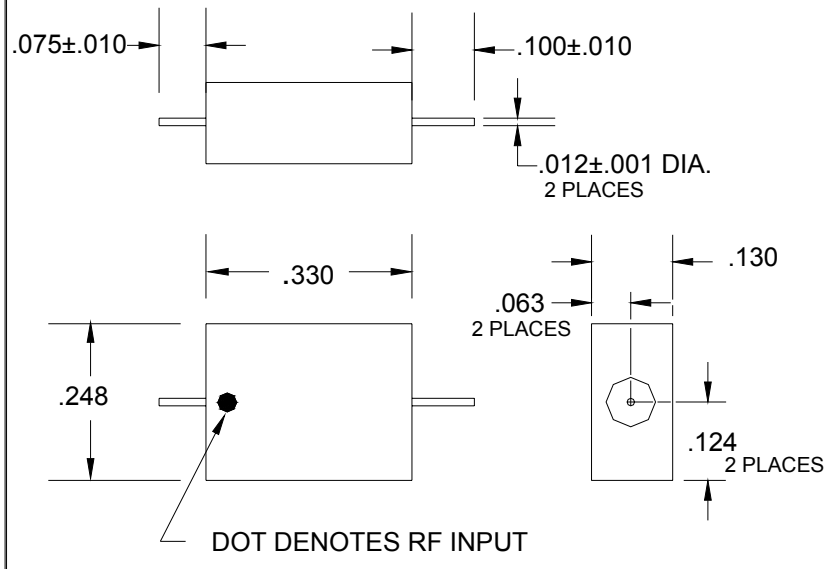
DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D109

SCALE 2:1 SHEET 1 OF 1



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.5 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	30 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

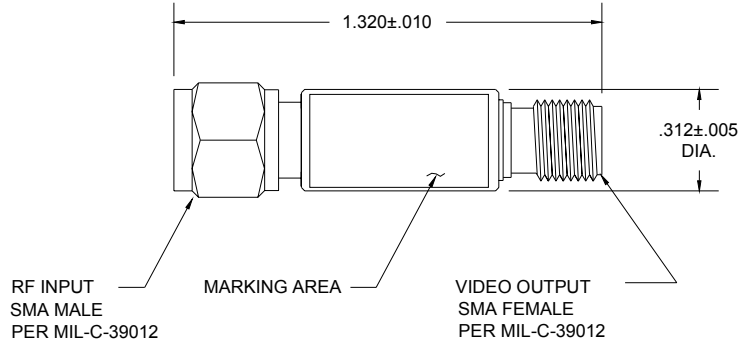
DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO	
A	1UJ73	OD930-D110	
SCALE 4:1			SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.75 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

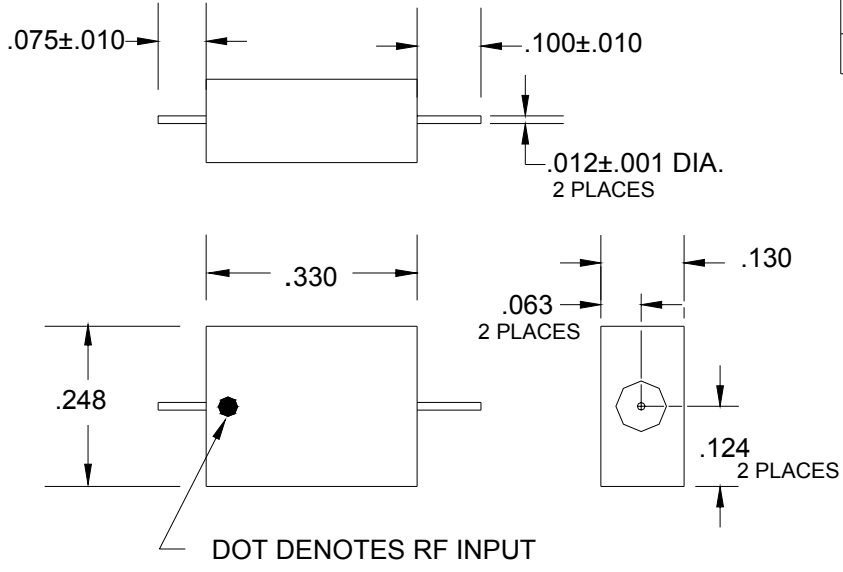
DRAFT R.A.J.	DATE 8/27/02	
CHKD		
PROD		
ENGR R.A.J.	8/27/02	
QA		

RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D111

SCALE 2:1 SHEET 1 OF 1



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.75 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

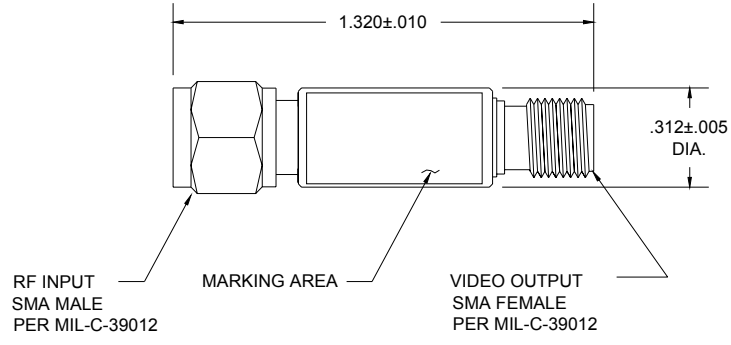
RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D112

SCALE 4:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	6.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.0 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBM MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+17 dBM
OPERATING TEMP. RANGE:	-55°C TO +100°C
STORAGE TEMP. RANGE:	-65°C TO +110°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBM, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBM
4. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

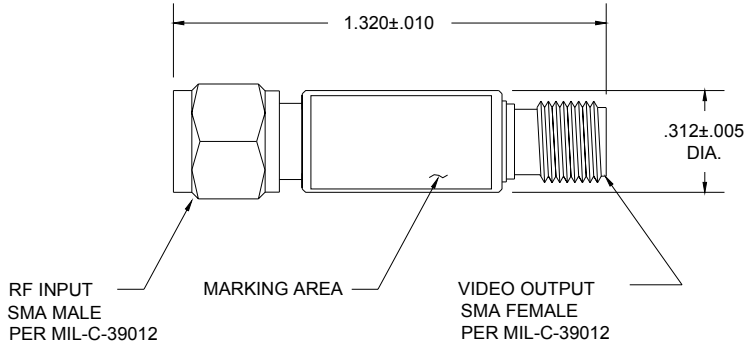
RH LABORATORIES, INC.

TITLE
TUNNEL DIODE DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D133

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1600 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.2 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

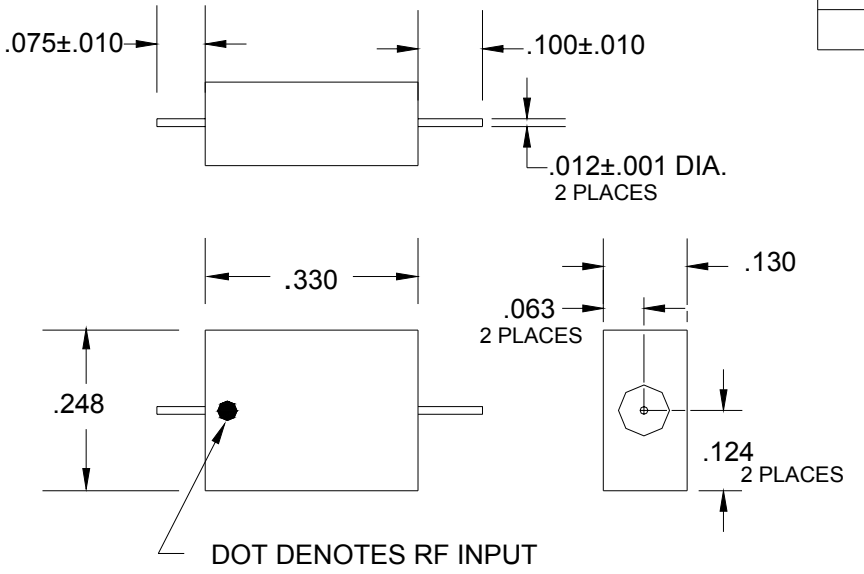
DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO	
A	1UJ73	OD930-D113	
SCALE 2:1			SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	1.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1600 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.2 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

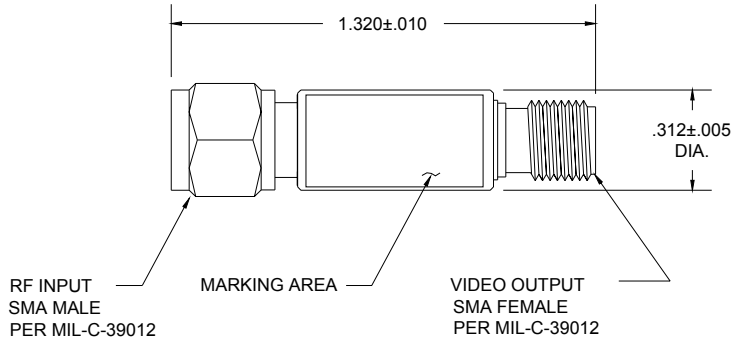
RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D114

SCALE 4:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	2000 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.0 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

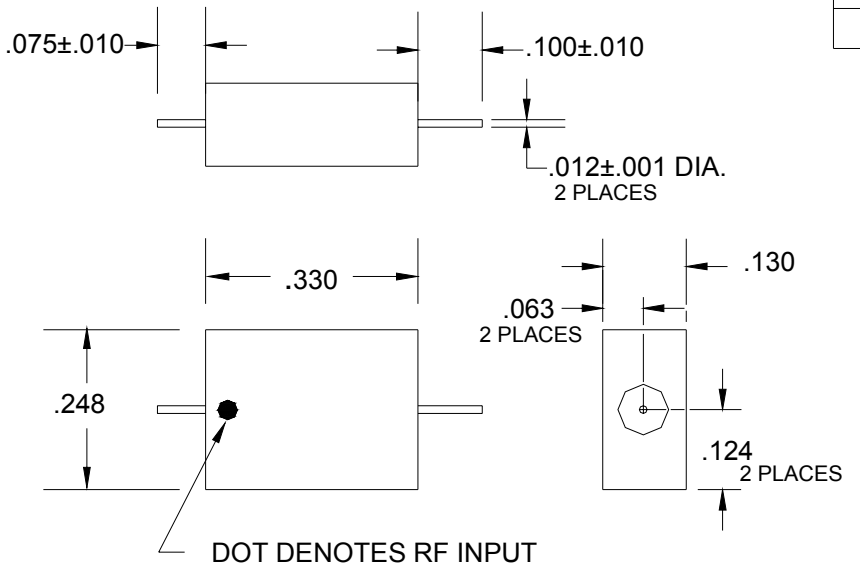
RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D115

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	2000 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.0 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	20 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

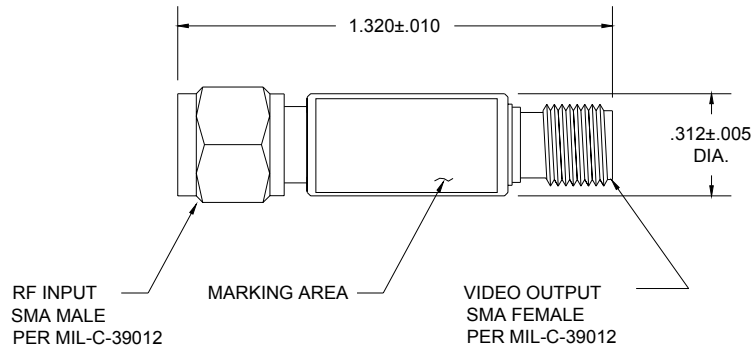
RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D116

SCALE 4:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTES:
1. MATERIAL: BODY, CONNECTORS AND SLEEVE CRES PASSIVATED PER QQ-P-35.
2. MARKING: BLACK EPOXY INK

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.0 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, OHMS VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

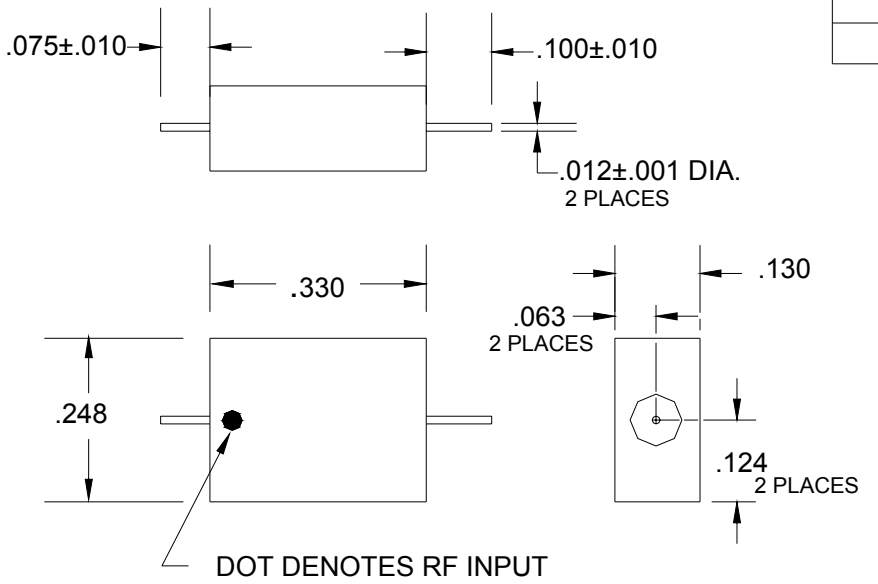
RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO
A	1UJ73	OD930-D117

SCALE 2:1 SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	8.0 TO 18.0 GHz
OPEN CIRCUIT SENSITIVITY:	1800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO +5.0 dBM
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±1.0 dB
TSS:	-51 dBM MIN.
NOMINAL VIDEO CAPACITANCE:	15 pF
MAX. CW RF INPUT:	+23 dBM
OPERATING TEMP. RANGE:	-55°C TO +125°C
STORAGE TEMP. RANGE:	-65°C TO +150°C

NOTES:
1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III

SPECIFICATION NOTES:
1. SENSITIVITY MEASURED AT -20dBM, 100uA BIAS, OHMS VIDEO LOAD = 30K OHMS
2. OUPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
3. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

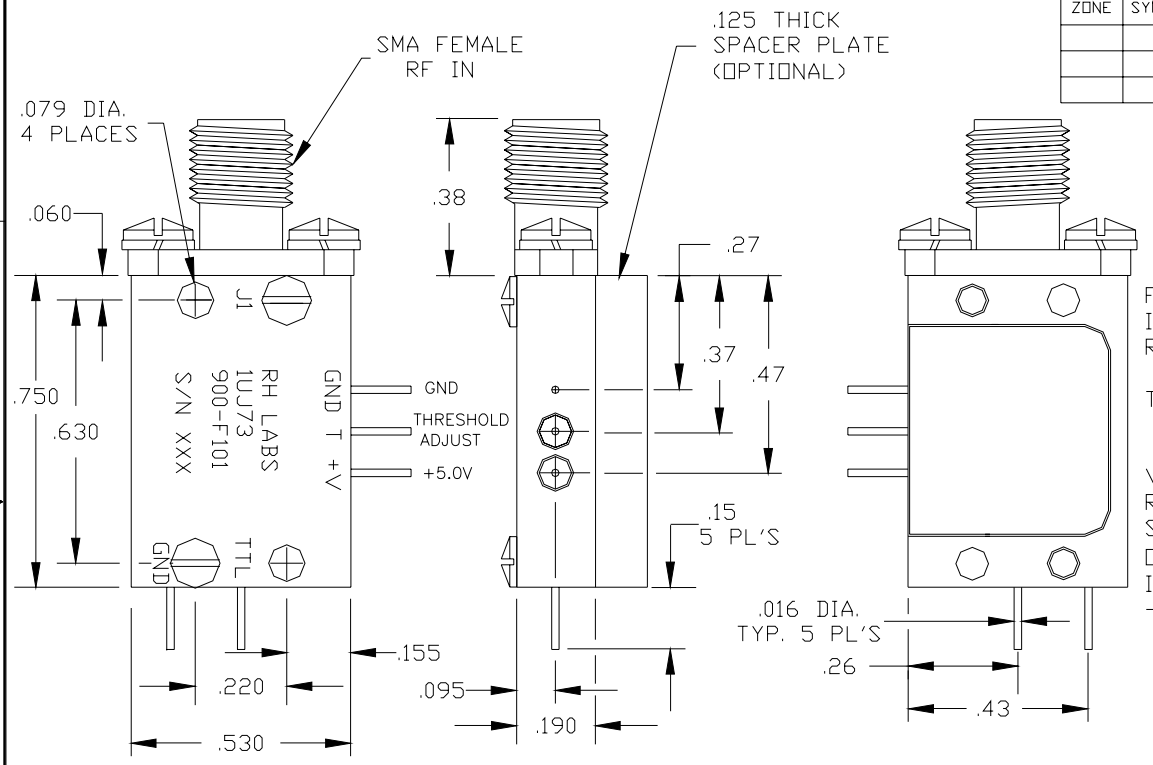
DRAFT	R.A.J.	DATE 8/27/02
CHKD		
PROD		
ENGR	R.A.J.	8/27/02
QA		

RH LABORATORIES, INC.

TITLE
BIASED SCHOTTKY DETECTOR

SIZE	CAGE CODE	DWG NO	
A	1UJ73	OD930-D118	
SCALE 4:1			SHEET 1 OF 1

REVISIONS				
ZONE	SYM	DESCRIPTION	DATE	APPROVED



SPECIFICATIONS

FREQUENCY RANGE: 2.3 GHz TO 7.0 GHz
INPUT VSWR: 1.35:1 MAX.
RF INPUT POWER RANGE:
-5.0 dBM TO +5.0 dBM
THRESHOLD CONTROL: (NOMINAL)
Pin = -5.0 dBM: 0 OHMS
Pin = +5.0 dBM: OPEN CIRCUIT OHMS
Vcc: +5.0 VDC
RF POWER RATING: +10 dBM MAX.
SWITCHING SPEED: < 10 nS
OPERATING TEMP: -40°C TO +71°C
INTERMITTENT TEMP. (10 MIN.):
-55°C TO +85°C, +110°C MAX FOR 2 MIN.

NOTES:
1. UNLESS OTHERWISE STATED, DIMENSIONAL TOLERANCES ARE XXX=±.010, XX=±.02.
2. FINISH: HOUSING, COVER AND SPACER: GOLD PLATE PER MIL-G-45204C, TYPE III,
CONNECTOR: CRES PER MIL-C-39012.
3. MARKING: BLACK EPOXY INK, "RH LABS", "1UJ73", "900-F101", "S/N xxx", "J1", "TTL", "GND", "T", "+V", "GND","YYWW" (DATE CODE).
4. DATE CODE ON SIDE OF HOUSING.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RH LABS AND SHALL NOT BE REPRODUCED OR COPIED OR USED IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEM(S) WITHOUT WRITTEN PERMISSION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH:RMS63
ANGLES:±1/2° FRACTIONS:±1/64
3 PLACE DECIMALS: ±.010
2 PLACE DECIMALS: ±.02
1 PLACE DECIMALS: ±.1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES TO .005 MAX. R OR CHAMFER

DRAFT	R.A.J.	DATE 8/12/02
CHKD		
PROD		
ENGR	R.A.J.	8/12/02
QA		

RH LABORATORIES, INC.

TITLE: OUTLINE
THRESHOLD DETECTOR

SIZE	CAGE CODE	DWG NO
B	1UJ73	900-F101

SCALE 4:1 SHEET 1 OF 1