



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

- NOTES:**
- MATERIAL: HOUSING AND COVERS ALUMINUM ALLOY. CONNECTORS, CRES
 - FINISH: (EXCEPT CONNECTORS) WASH PRIMER PER DOD-P-15328D, PRIMER PER MIL-P-23377D, PAINT PER MIL-C22750, COLOR BLUE.
 - MOUNTING PLATE IS ANODIZED PER MIL-A-8625, TYPE I.
 - MARKING: BLACK EPOXY INK AS FOLLOWS: "L", "R", "I", "1UJ73", "900-M11X", "SERNO XXXX".
 - DATE CODE ON SIDE OF HOUSING. (YYWW)



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	TITLE	
CHKD			MIXER OUTLINE	
PROD			SIZE B	CAGE CODE 1UJ73
ENGR R.A.J. DATE 8/28/02			DWG NO 900-M113/114/115	
QA			SCALE 2:1	SHEET 1 OF 1

