



NOTES SEE SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES.
 AND INCLUDE FINISH:
 TOLERANCES ARE:
 FRACTIONS $\pm 1/64$
 DECIMALS $xx \pm 01$ $xxx \pm .005$
 ANGLES $\pm 0^{\circ}15'$ SURFACE FINISH 63
 CONCENTRICITY .004 TIR

| | SIGNED | DATE |
|----------|------------|---------|
| DRAWN | <i>EJG</i> | 8/23/91 |
| CHECKED | | |
| EE APP'D | <i>RS</i> | 8/23/91 |
| ME APP'D | <i>EJG</i> | 8/23/91 |
| QA APP'D | | |
| JOB NO | | |

RS

MICROWAVE COMPANY, INC.

22 PARK PLACE, P.O. BOX 273 BUTLER, NEW JERSEY 07405
201-492-1207 FSCM 61453

TITLE

BANDPASS FILTER

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 RS MICROWAVE COMPANY INC

| SIZE | CODE IDENT NO | DWG NO | REV |
|----------|---------------|--------------|----------|
| A | 61453 | 12261 | A |
| SCALE | SHEET 1 OF 2 | | |

REQUIREMENTS

1 ELECTRICAL

GENERAL. THE UNIT SHALL PROVIDE FULL ELECTRICAL PERFORMANCE IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS OVER ANY COMBINATION OF ENVIRONMENTAL CONDITIONS SPECIFIED.

2 PASS-BAND FREQUENCY RANGE. THE MINIMUM PASS-BAND FREQUENCY RANGE SHALL BE FROM DC TO 1,160 MHz.

3 CUTOFF FREQUENCY. THE CUTOFF FREQUENCY SHALL BE AT 1,160 MHz +5 PERCENT AT THE 0-dB POINT.

4 THREE-dB REJECTION POINT. THE UNIT SHALL HAVE A REJECTION OF AT LEAST 3-dB AT 1,317 MHz + 5 PERCENT.

5 TEN-dB REJECTION POINT. THE UNIT SHALL HAVE A REJECTION OF AT LEAST 10-dB AT 1,366 MHz +5PERCENT.

6 THIRTY-dB REJECTION POINT. THE UNIT SHALL HAVE A REJECTION OF AT LEAST 30 dB AT 1,532 MHz +5PERCENT.

7 FORTY-dB REJECTION POINT. THE UNIT SHALL HAVE A MINIMUM REJECTION OF 40 dB FROM 8,500 THRU 9,000 MHz.

8 SIXTY-dB REJECTION POINT. THE UNIT SHALL HAVE A MINIMUM REJECTION OF 60 dB FROM 2,010 THRU 8,500 MHz.

9 INSERTION LOSS. THE MAXIMUM INSERTION LOSS WITHIN THE PASS-BAND FREQUENCY RANGE (SEE 3.2.1.1) SHALL BE 1-dB.

10 VOLTAGE STANDING-WAVE RATIO (VSWR). THE MAXIMUM VSWR IN THE PASS-BAND RANGE SHALL BE 1.5;1, WHEN REFERENCED TO A 50-OHM SYSTEM.

11 IMPEDANCE. THE UNIT SHALL HAVE A 50-OHM IMPEDANCE.

12 RF INPUT POWER. THE UNIT SHALL TOLERATE WITHOUT DAMAGE OR PERMANENT DEGRADATION A MAXIMUM RF INPUT POWER OF 40.6 dBm, CW

13 RESPONSE. THE FILTER SHALL HAVE A MONOTONIC RESPONSE FROM THE 3-dB TO 60-dB REJECTION POINTS.

| | | | | | | | |
|--|----------|--------------------|---------|---|---------------|--------|-----|
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. AND INCLUDE FINISH: TOLERANCES ARE: FRACTIONS ± 1/64 DECIMALS XX ± 01 XXX ± .005 ANGLES ± 0°15' SURFACE FINISH 63 CONCENTRICITY .004 TIR ✓ | | SIGNED | DATE | RS MICROWAVE COMPANY, INC. 22 PARK PLACE, P.O. BOX 273 BUTLER, NEW JERSEY 07405 201-482-1207 FSCM 61453 | | | |
| | DRAWN | | | | | | |
| | CHECKED | | | | | | |
| | EE APP'D | <i>[Signature]</i> | 8/27/41 | | | | |
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| | QA APP'D | | | SIZE | CODE IDENT NO | DWG NO | REV |
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