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Equivalent Series Resistance Table

| FREQUENCY RANGE | | ESR (W) Max. | | | | | | | |
|-----------------|-------|--------------|--------|-----|-----|-----|-------|--------|-----|
| FREQ. (MHz) | MODE | HC49/U | HC49/S | UM1 | UM4 | UM5 | S3/S0 | HC45/U | ST |
| < 2 | Fund. | 500 | . | . | . | . | . | . | . |
| 2-2.9 | Fund. | 350 | . | . | . | . | . | . | . |
| 3.0-3.2 | Fund. | 200 | . | . | . | . | . | . | . |
| 3.2-3.6 | Fund. | 150 | . | . | . | . | . | . | . |
| 3.6-4.0 | Fund. | 150 | 150 | . | . | . | . | . | 200 |
| 4.1-4.4 | Fund. | 100 | 120 | . | . | . | . | . | 150 |
| 4.5-4.9 | Fund. | 80 | 120 | . | . | . | . | . | 150 |
| 5.0-6.9 | Fund. | 50 | 80 | . | . | . | . | . | 150 |
| 7.0-8.0 | Fund. | 35 | 80 | . | . | . | . | . | 100 |
| 8.1-9.9 | Fund. | 35 | 70 | . | . | . | . | . | 100 |
| 10.0-11.9 | Fund. | 25 | 50 | 40 | . | . | 60 | 60 | 50 |
| 12.0-14.9 | Fund. | 25 | 50 | 30 | 30 | 35 | 60 | 60 | 50 |
| 15.0-19.9 | Fund. | 25 | 40 | 25 | 30 | 30 | 60 | 50 | 50 |
| 20.0-22.0 | Fund. | 25 | 40 | 25 | 25 | 30 | 60 | 50 | 50 |
| 22.1-25.0 | Fund. | 25 | 40 | 25 | 25 | 30 | 60 | 30 | 50 |
| 25.1-30.0 | Fund. | 25 | . | 25 | 25 | 30 | 60 | 30 | 50 |
| 30.1-32.0 | Fund. | . | . | 25 | 25 | 30 | 60 | 30 | 50 |
| 32.1-50.0 | Fund. | . | . | 25 | 25 | 30 | . | 60 | 50 |
| 28.0-34.9 | 3rd | 40 | 100 | . | . | . | 60 | . | 60 |
| 35.0-44.9 | 3rd | 40 | 100 | 50 | . | . | 60 | . | 60 |
| 45.0-54.9 | 3rd | 40 | 100 | 45 | . | 50 | 60 | 45 | 60 |
| 55.0-59.9 | 3rd | 40 | 100 | 40 | 45 | 50 | 60 | 40 | 60 |
| 60.0-70.0 | 3rd | 40 | 100 | 35 | 40 | 45 | 60 | 35 | 60 |
| 70.1-84.0 | 3rd | 40 | . | 35 | 40 | 45 | 60 | 35 | . |
| 84.1-120 | 3rd | . | . | 35 | 40 | 40 | . | 35 | . |
| 80.0-83.9 | 5th | 70 | . | 70 | . | . | . | 70 | . |
| 84.0-89.9 | 5th | 70 | . | 70 | . | . | 80 | 70 | . |
| 90.0-100.0 | 5th | 70 | . | 70 | 90 | 90 | 80 | 70 | . |
| 100.1-160.0 | 5th | 70 | . | 70 | 90 | 90 | . | 70 | . |
| 150-180.0 | 7th | 120 | . | . | . | . | . | . | . |

NOTES:

For frequencies lower than 23.999 MHz, fundamental mode is standard and a requirement for overtone should be specified.

For frequencies higher than 24.000 MHz, overtone mode is standard and a requirement for fundamental should be specified.

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