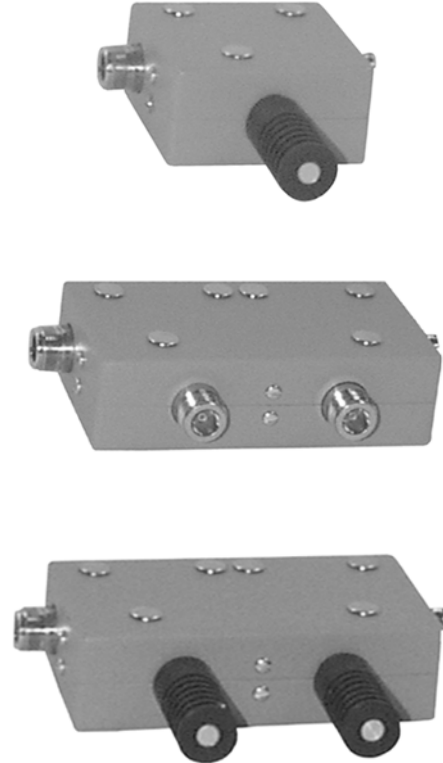


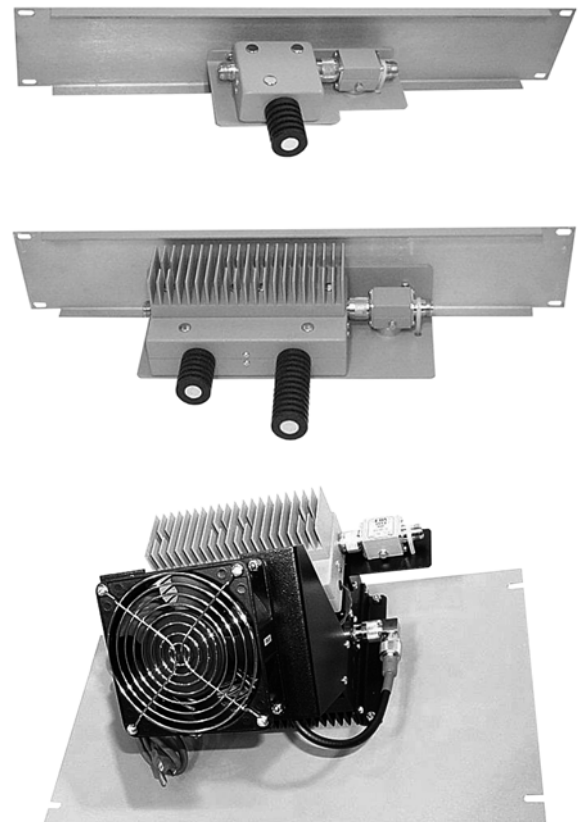
CIRCULATOR & ISOLATOR APPLICATION NOTES:

- Circulated power is the same as forward handling power.
- To insure stated specifications, loads are dynamically matched to circulators during manufacturing. Isolation and insertion loss specifications are guaranteed only with EMR supplied loads.
- Models with load terminations of 125 watts or higher include matched cable to load and circulator to load termination mounting bracket.
- Higher power models are available, please contact the factory with your requirements.
- Connectors other than N female are available, please contact the factory.
- Models with an "H" after the slash (/) include additional heat sinking.
- Models with an "F" after the slash include a thermally activated 115 VAC forced air cooling fan for applications exceeding a 50% duty cycle (1 minute on 1 minute off). Fans other than 115 VAC are available.
- Isolator models with a "/1S" suffix contain a built-in 2nd harmonic filter.
- Isolators and circulators are manufactured for specific frequencies within the listed frequency ranges. Circulators and Isolators are manufactured across the spectrum from 66 MHz to 2.5 GHz for a variety of domestic and international applications. Please contact the factory for more detailed specifications and requirements.



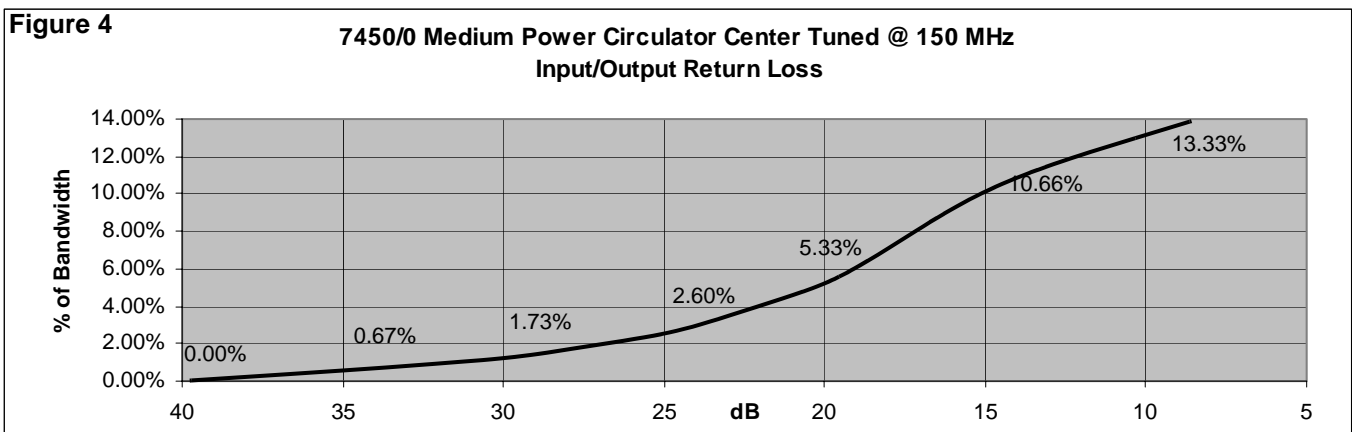
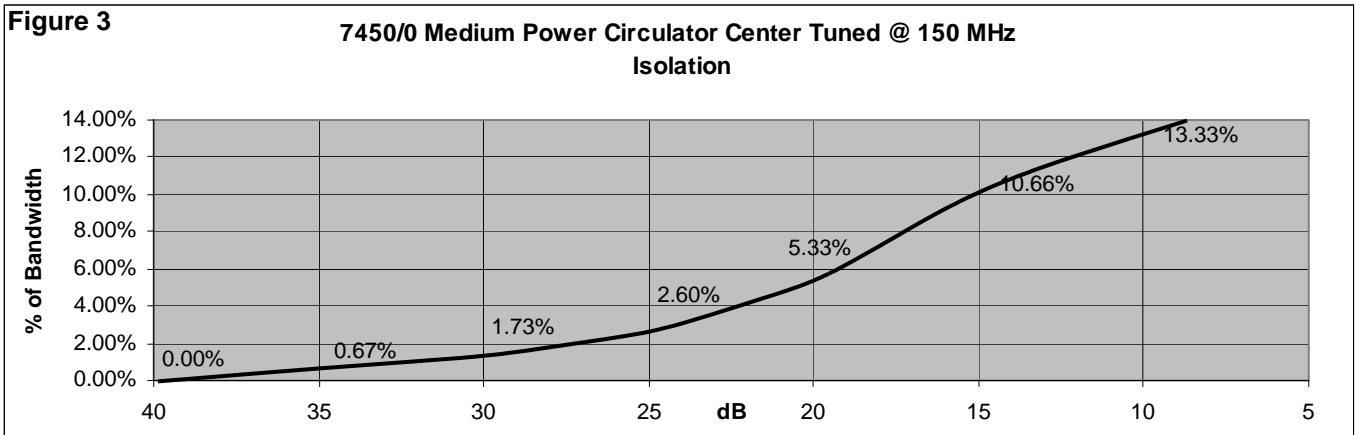
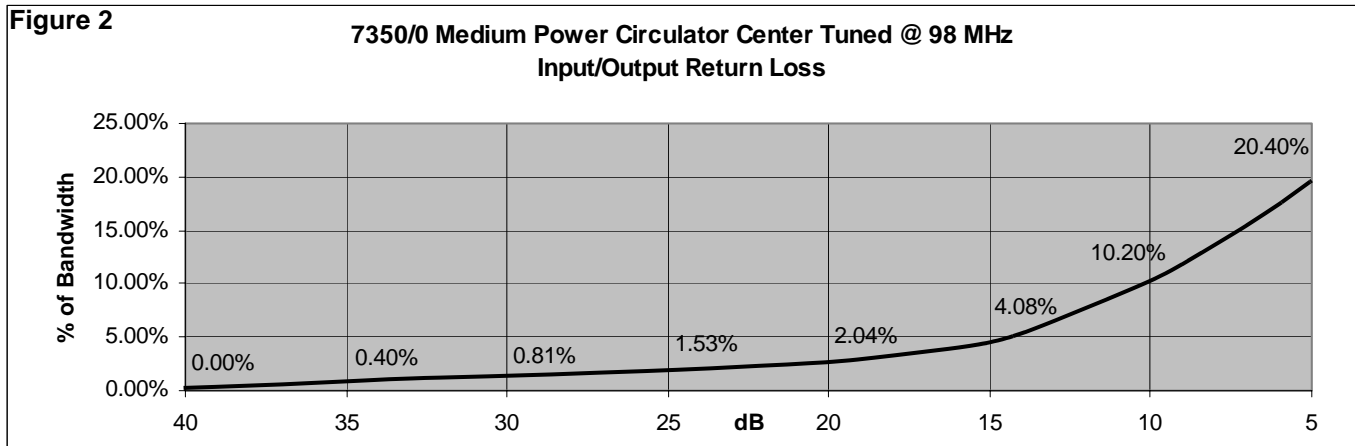
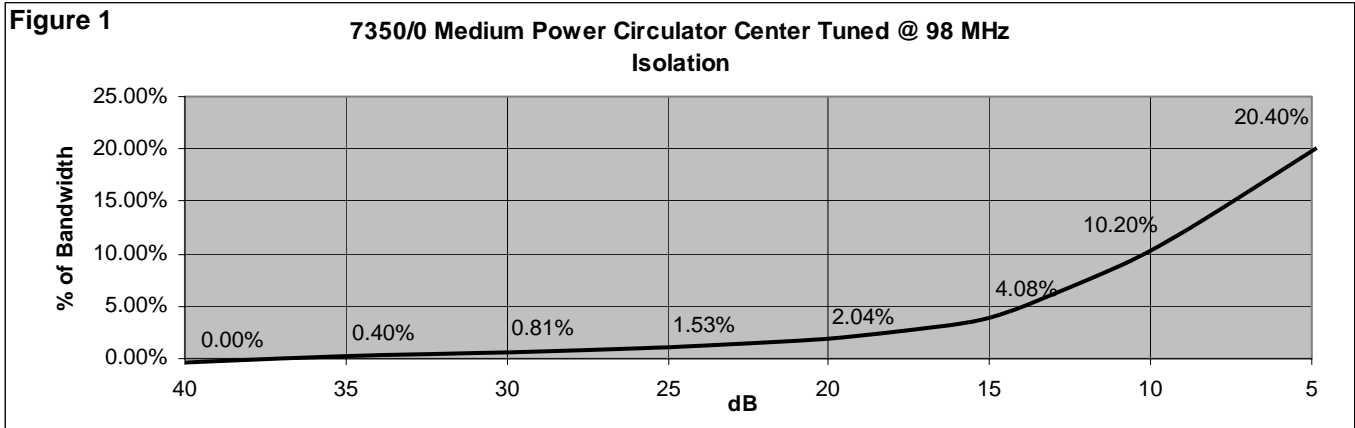
IM CONTROL PANEL APPLICATION NOTES:

- The following electrical specifications apply to all EMR IM Control Panels:
VSWR: 1.15:1
Impedance: 50 Ω
Temperature Range: -22 to +140° F (U.S.) & -30 to +60° C (metric)
Connectors: N-Female
Finish: Textured Gray Enamel. Except for model numbers with the suffix of "/1S" which have a chem film finish
- IM control panels include factory tuned isolator, harmonic filter and 19" rack mounted panel.
- Models with load terminations of 125 watts or higher include matched cable to load and circulator to load termination mounting bracket.
- To insure stated specifications loads are dynamically matched in circulators during manufacturing. Isolator specifications are guaranteed only with manufacturer supplied loads.
- Models with an "H" after the slash (/) include additional heat sinking.
- Models with an "F" after the slash include a thermally activated 115 VAC forced air cooling fan for applications above 200 watts and exceeding a duty cycle of 50% (1 minute on 1 minute off). Fans using other than 115 VAC are available.
- Low pass filters may be provided in place of 2nd harmonic filters for an additional charge.



INTERMODULATION CONTROL DEVICES

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Figure 1

**7460/0 High Power Circulator Center Tuned @ 150 MHz
Isolation**

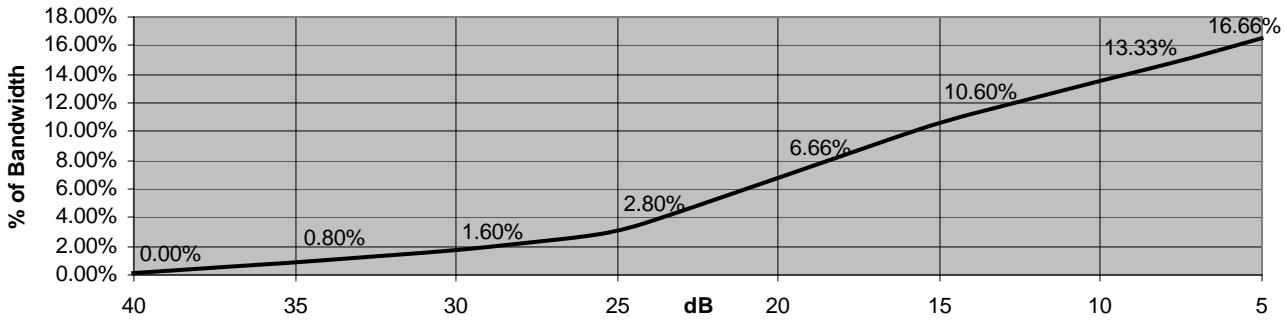


Figure 2

**7460/0 High Power Circulator Center Tuned @ 150 MHz
Input/Output Return Loss**

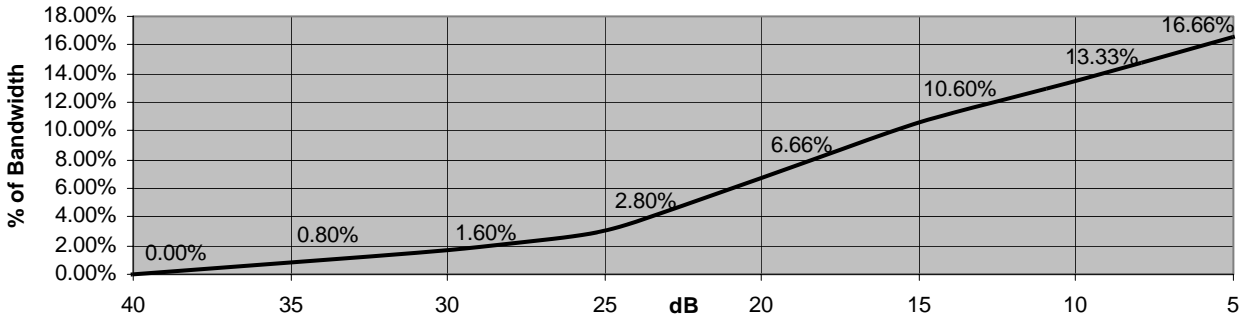


Figure 3

**7480/00 High Power Circulator Centered @ 150 MHz
Isolation**

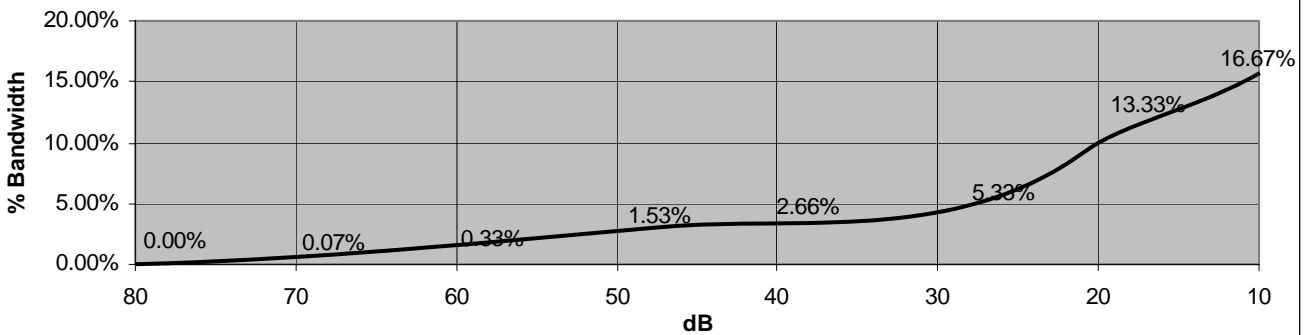
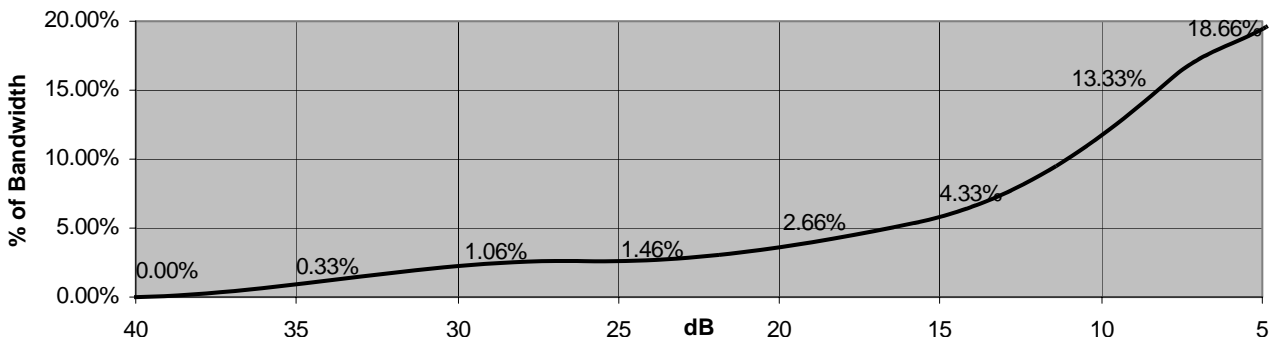
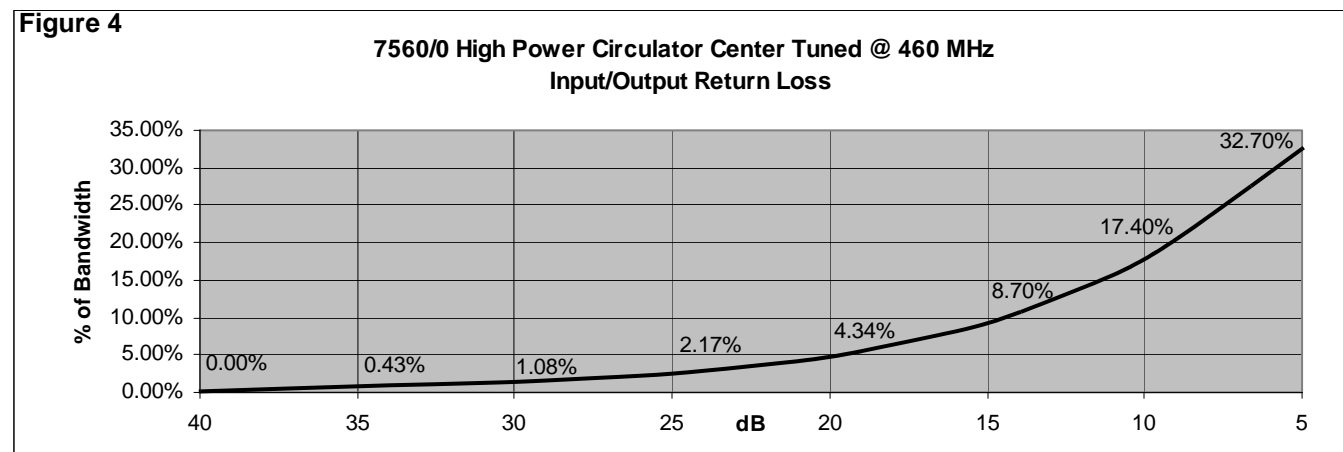
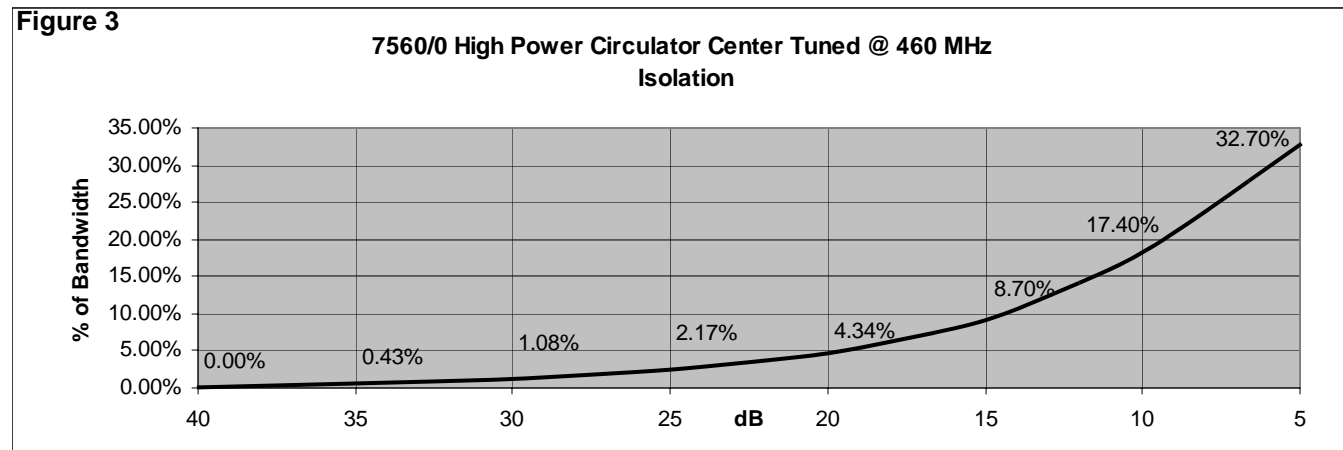
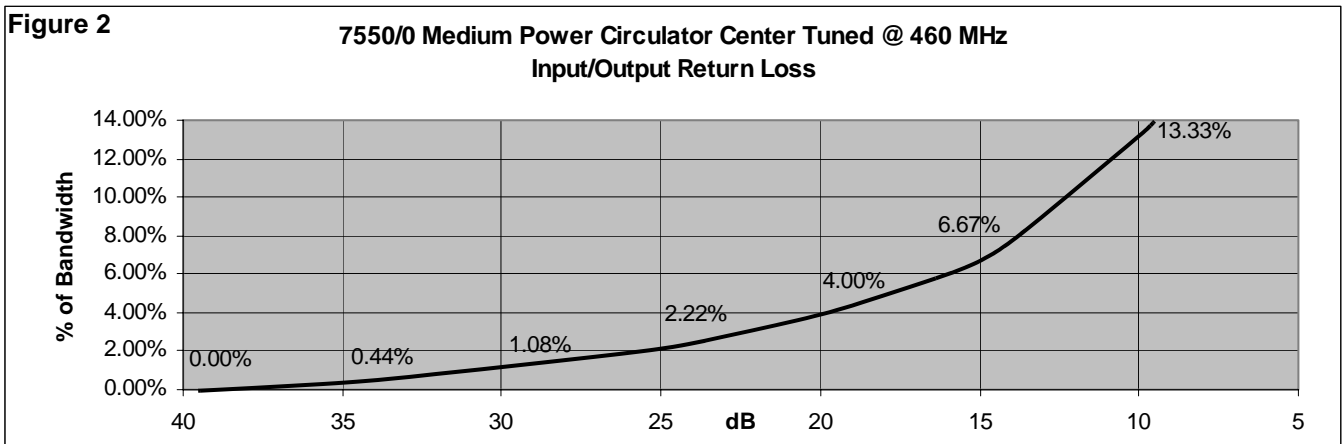
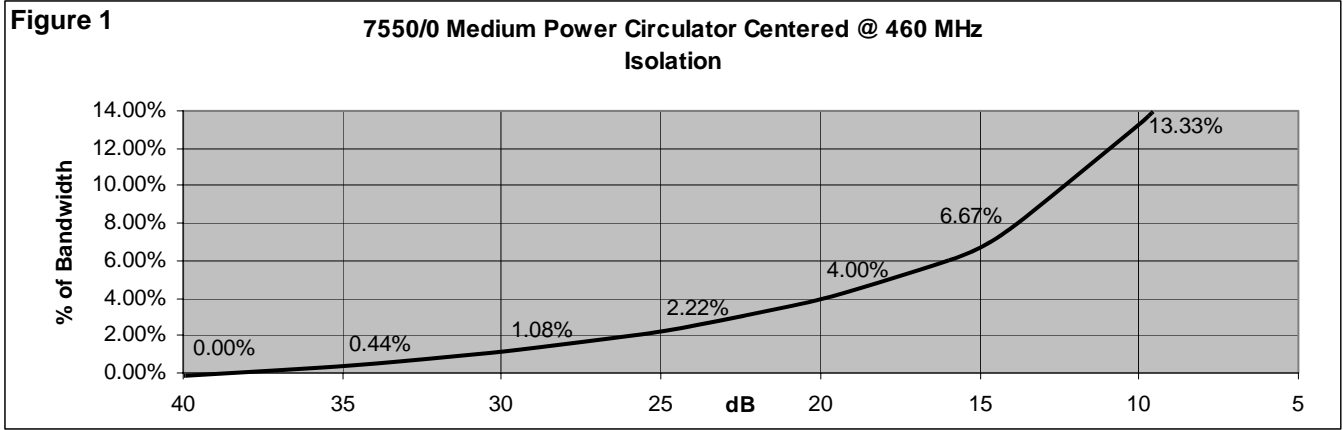


Figure 4

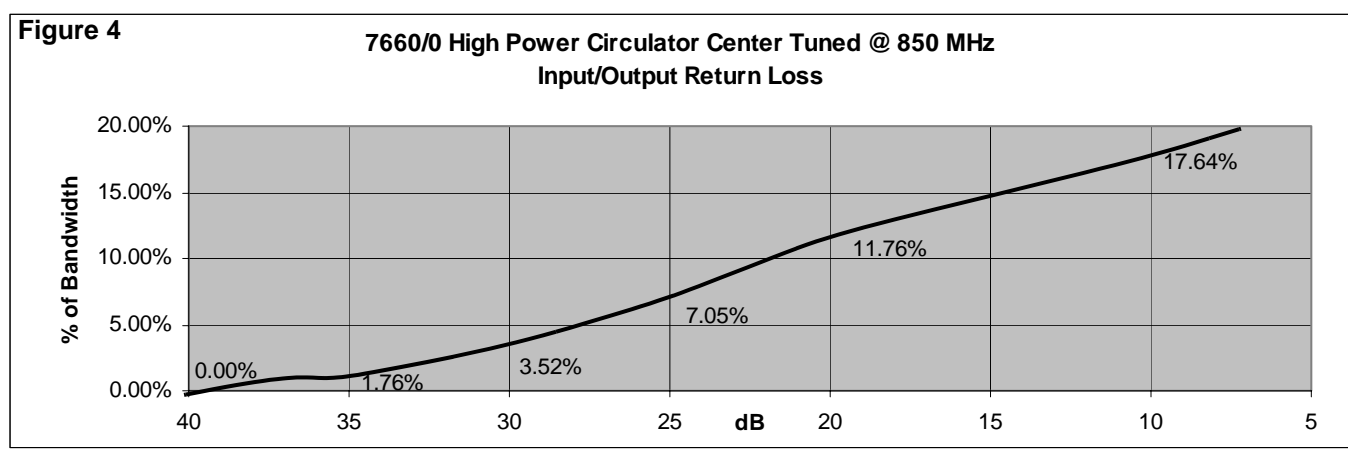
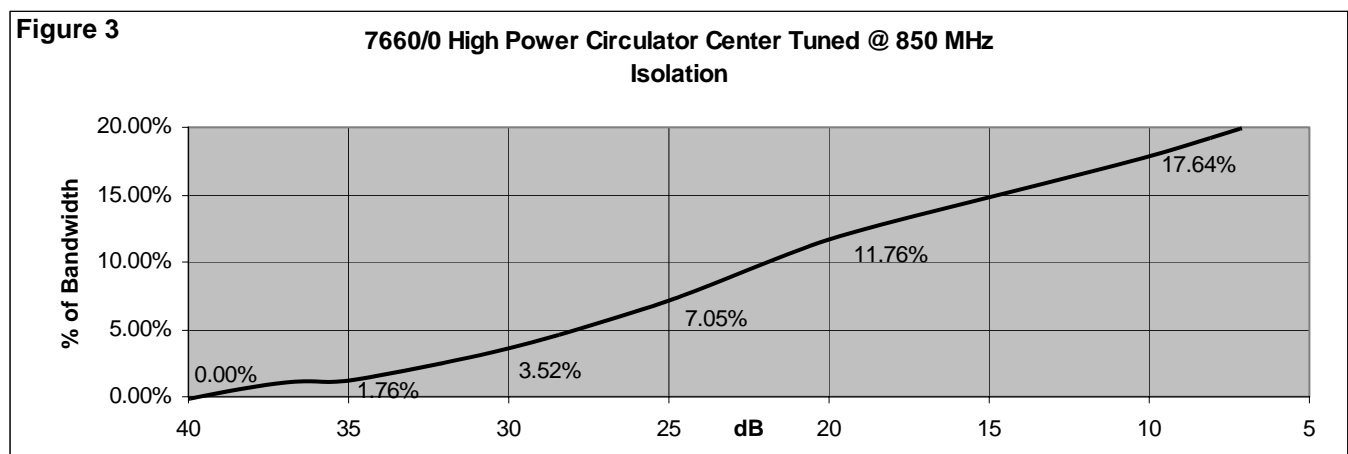
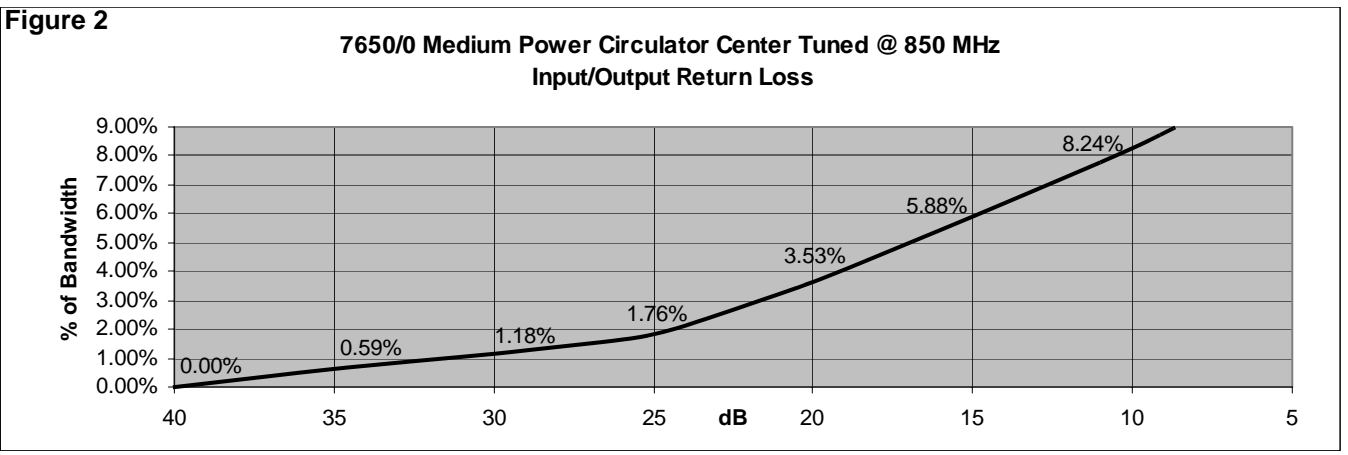
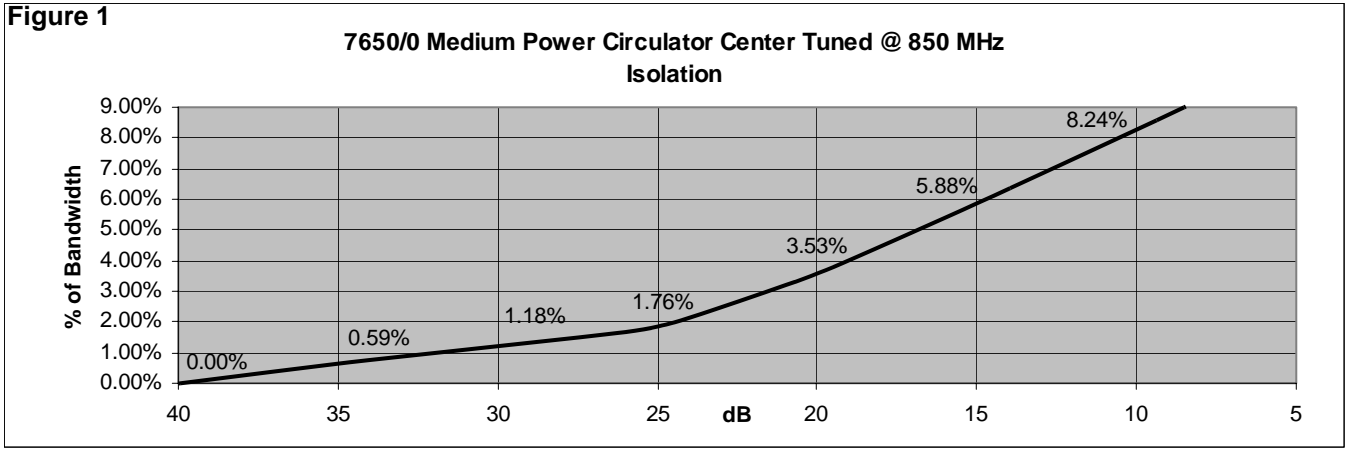
**7480/00 High Power Circulator Center Tuned @ 150 MHz
Input/Output Return Loss**





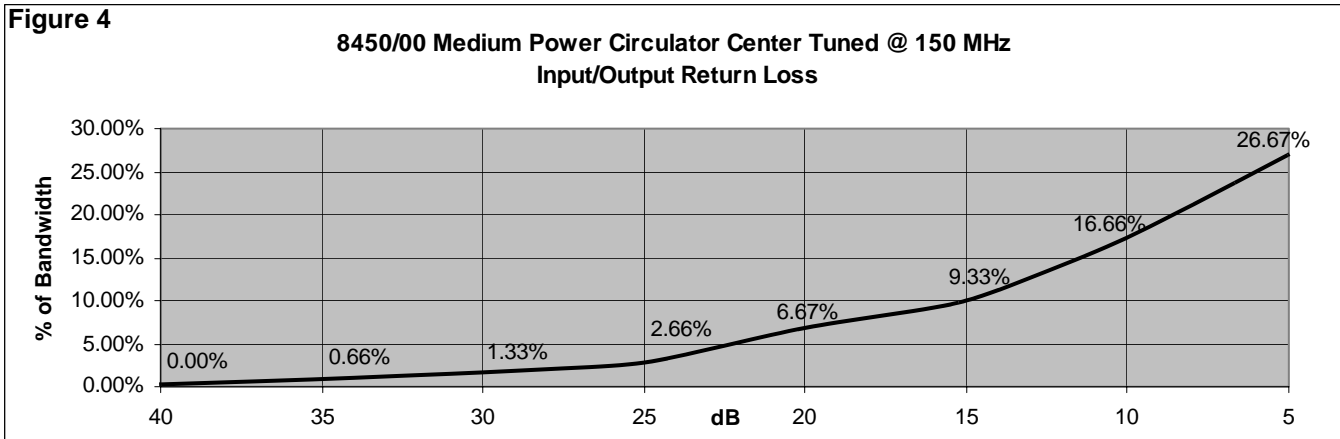
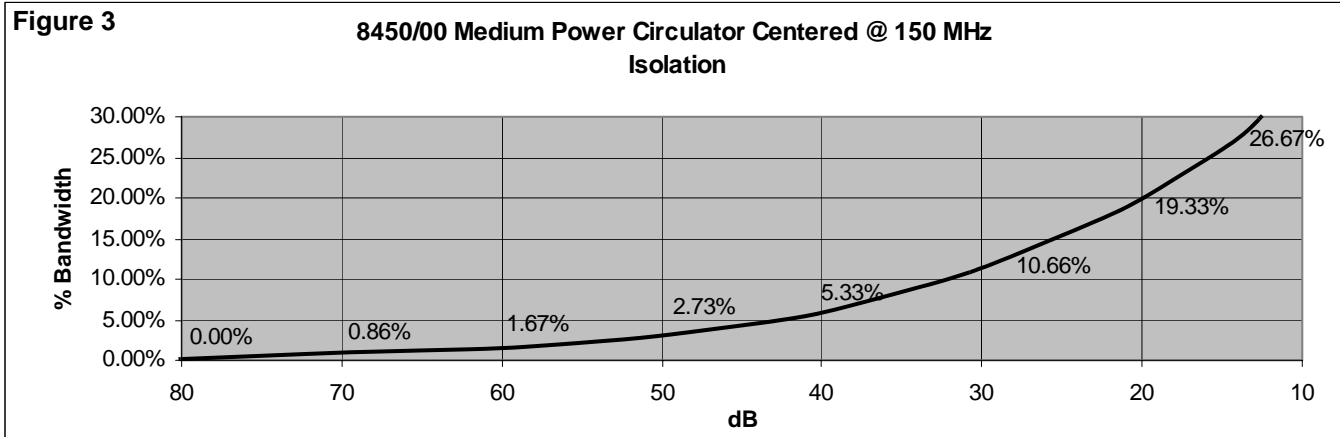
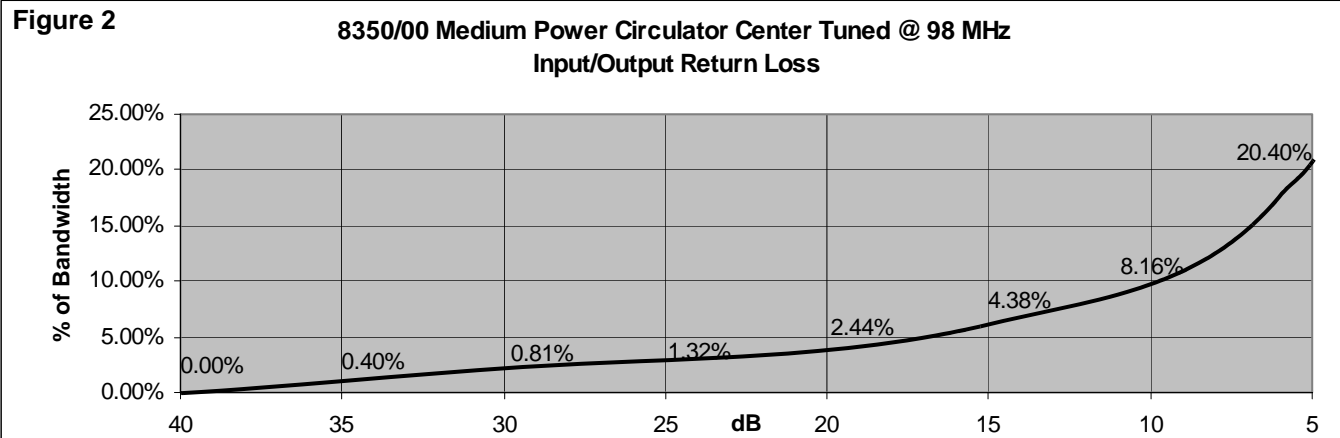
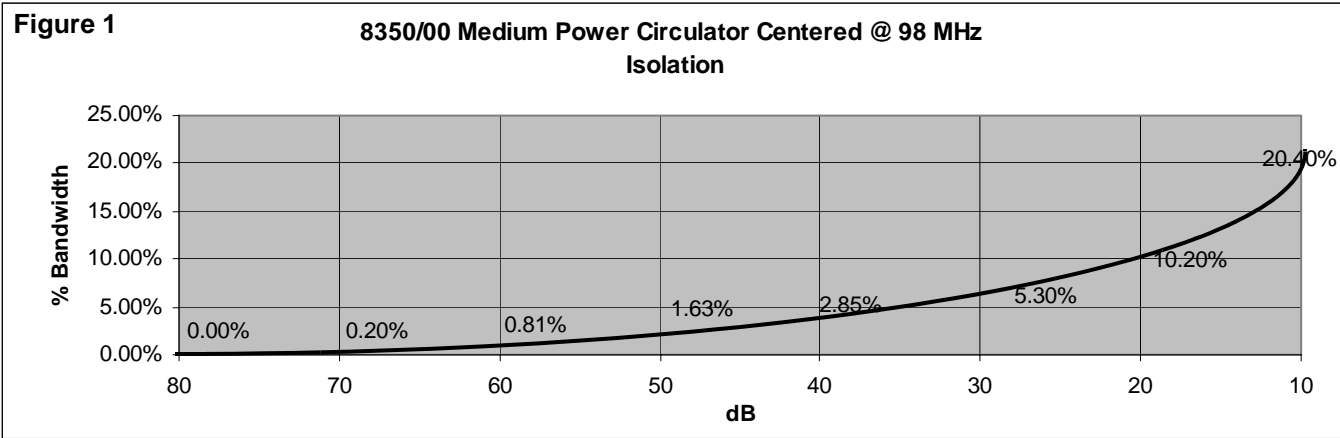
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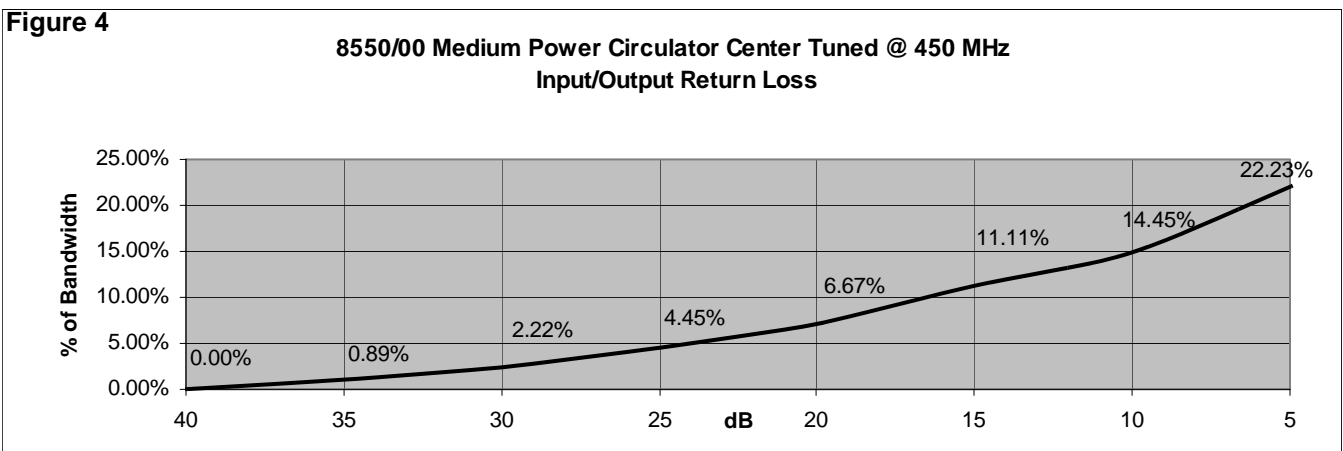
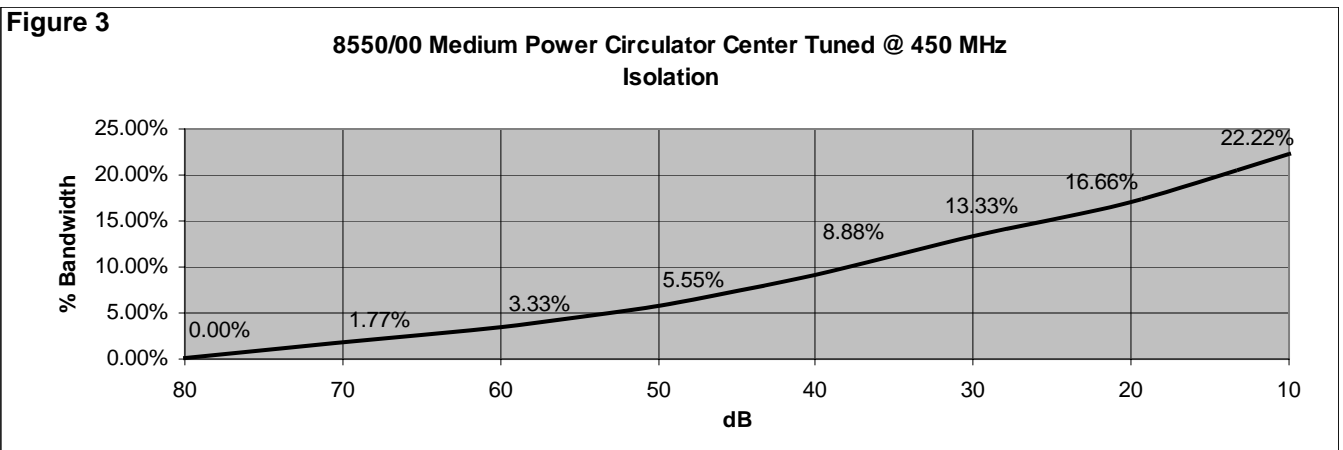
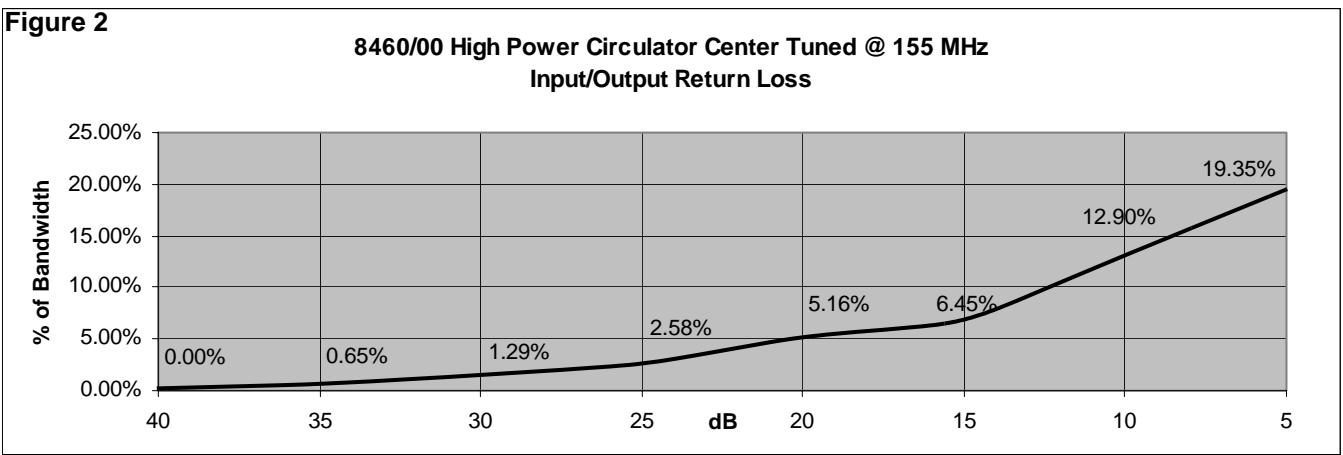
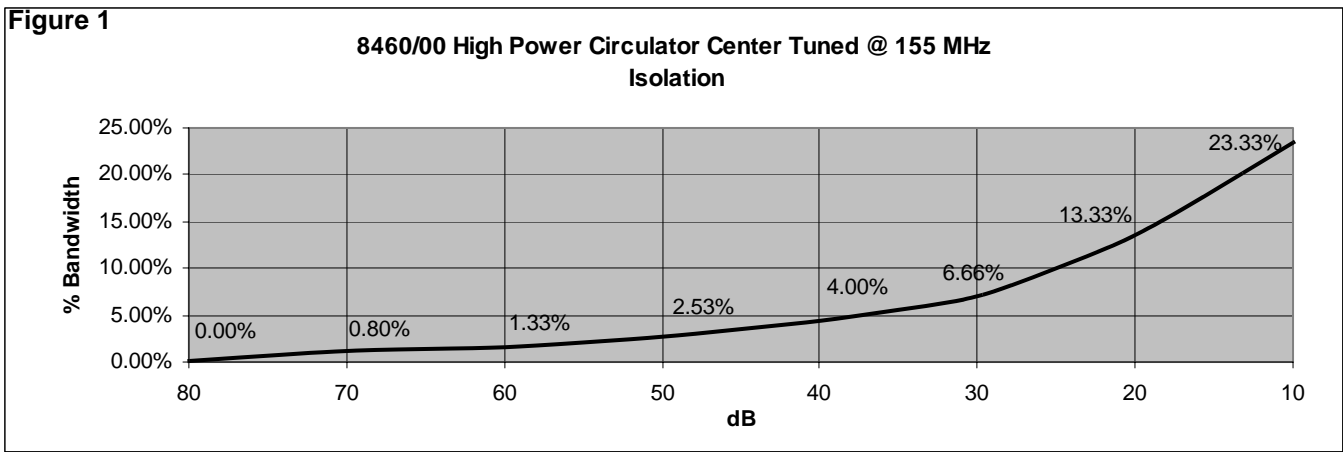
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