F1490 INITIAL DESIGN VALIDATION DATA

2019 OCTOBER 30

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EXECUTIVE SUMMARY

- Measurement data of key F1490 RF parameters across operating voltage and temperature presented.
- Single BOM used for both low gain and high gain modes.
- BOM optimized for low gain mode performance.
- Performance can be improved for high gain mode with optimal BOM.

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2.3GHZ – 2.7GHZ BOM DATA

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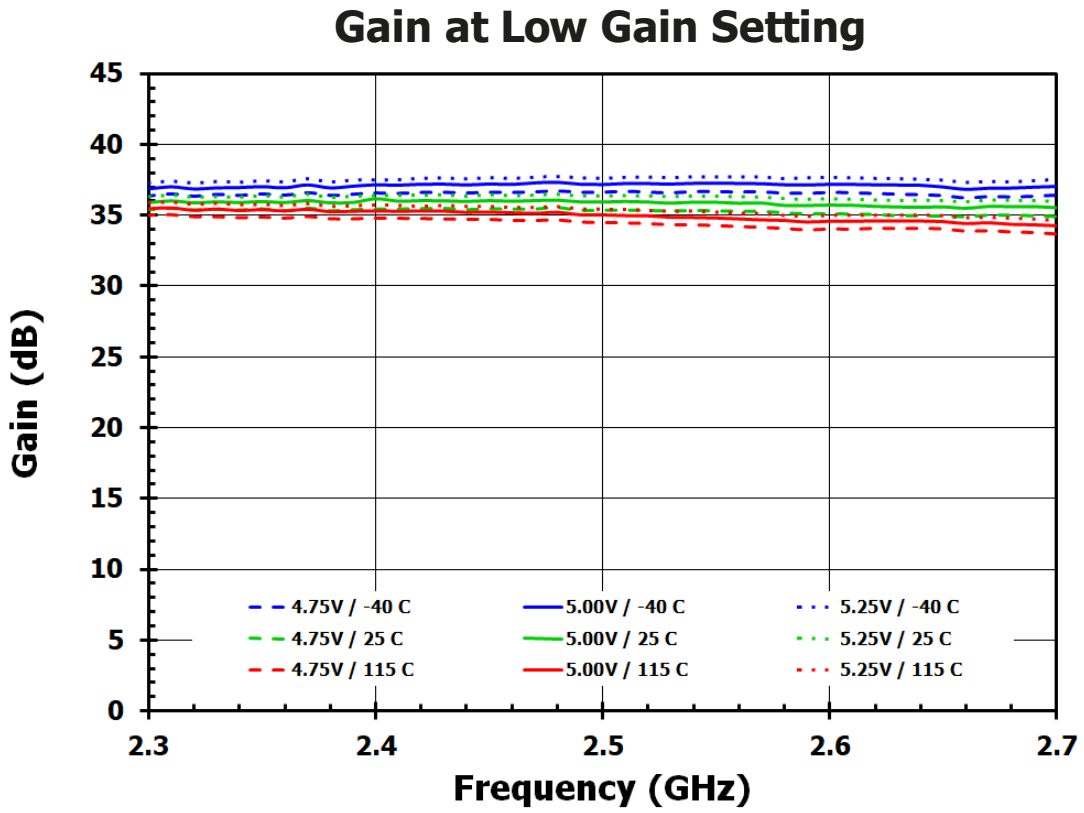
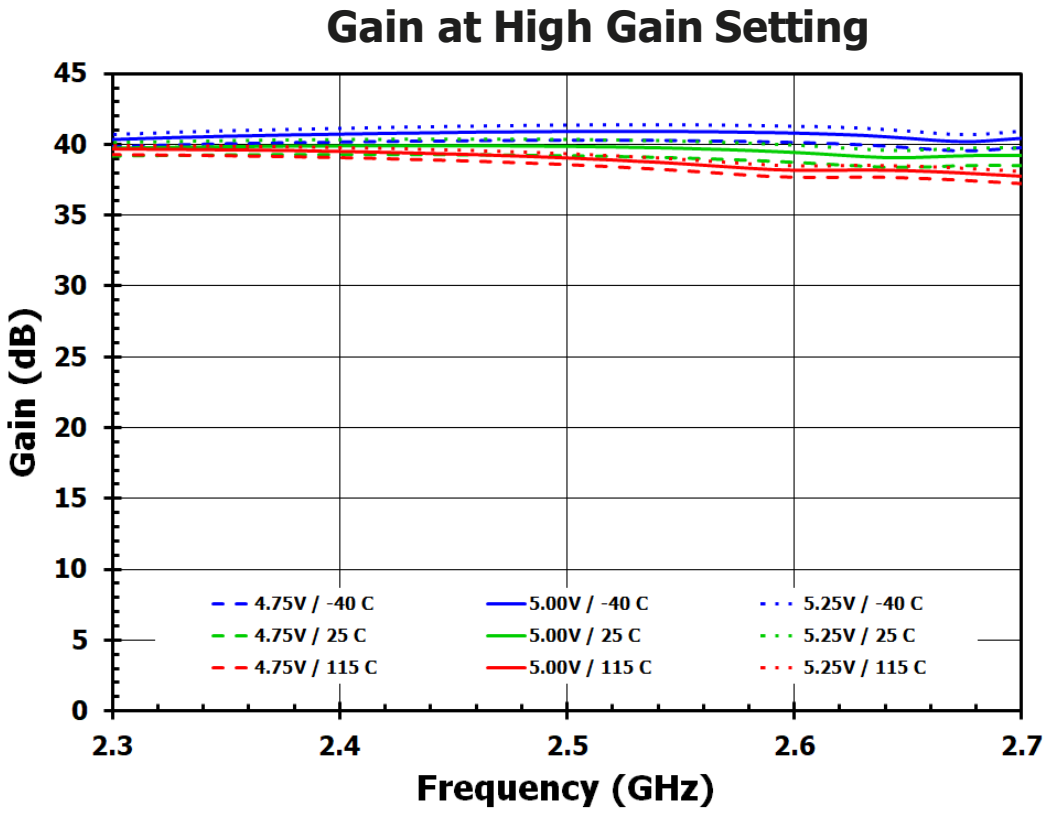
S-PARAMETERS (1 OF 4)





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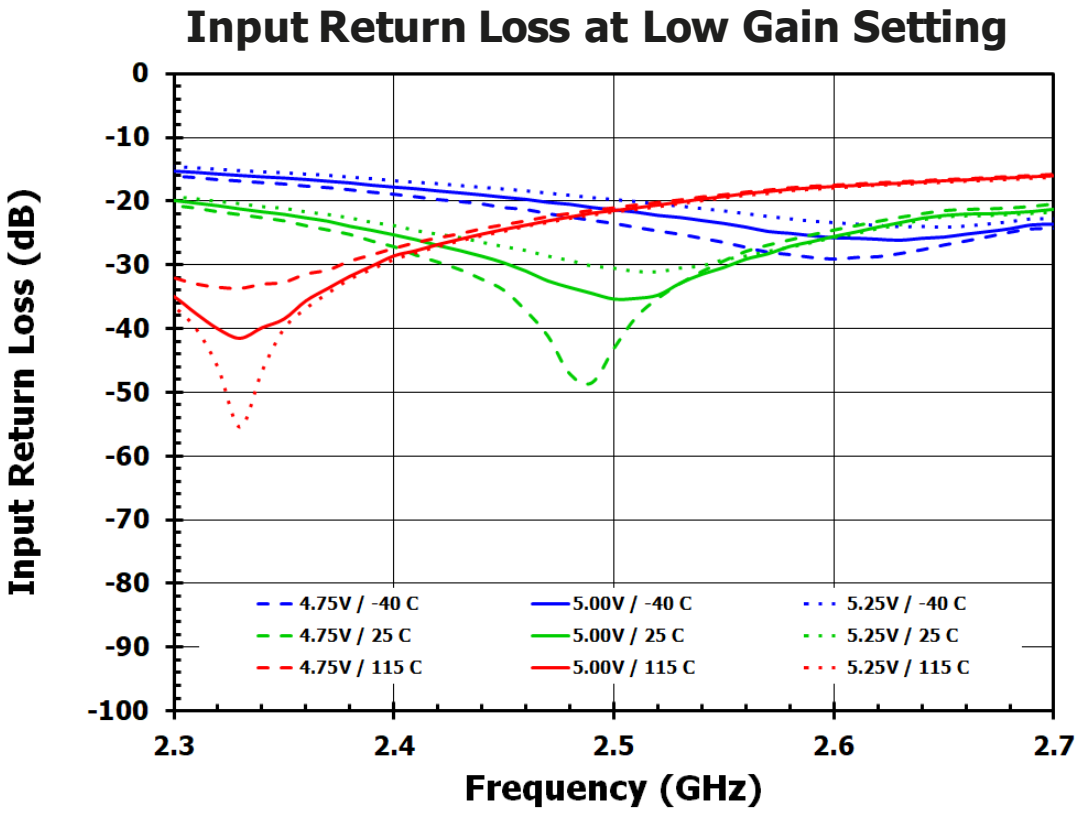

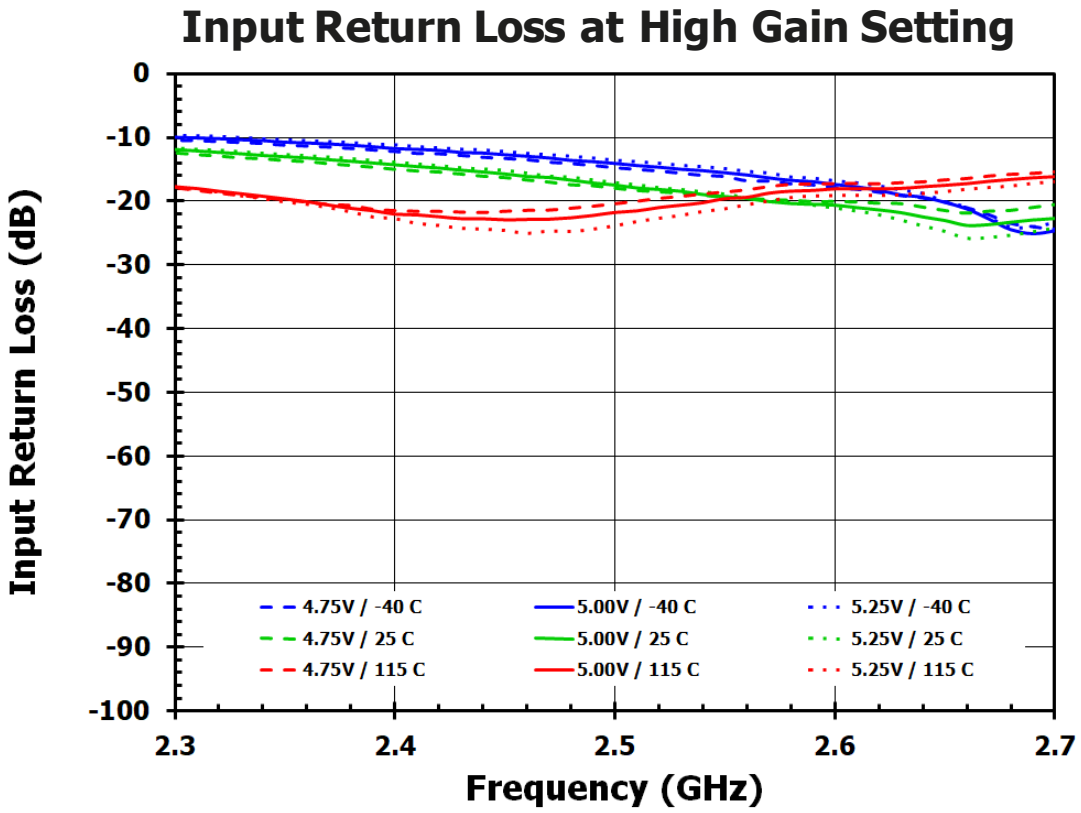

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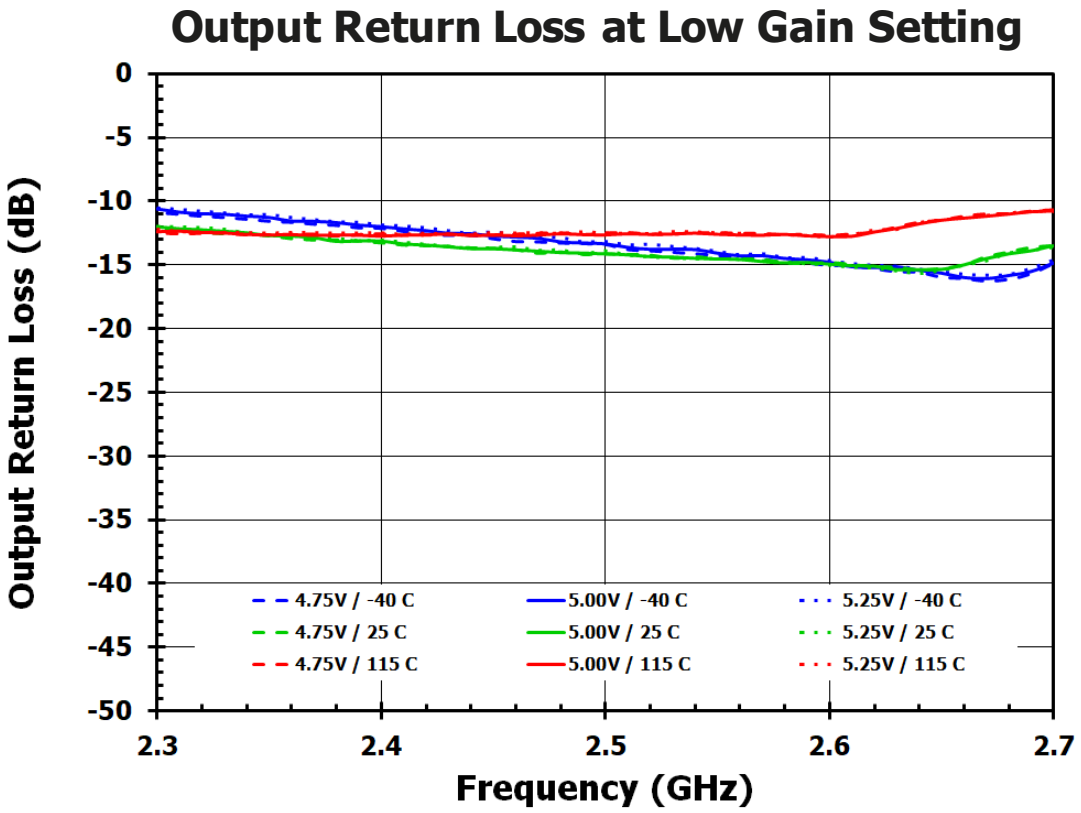
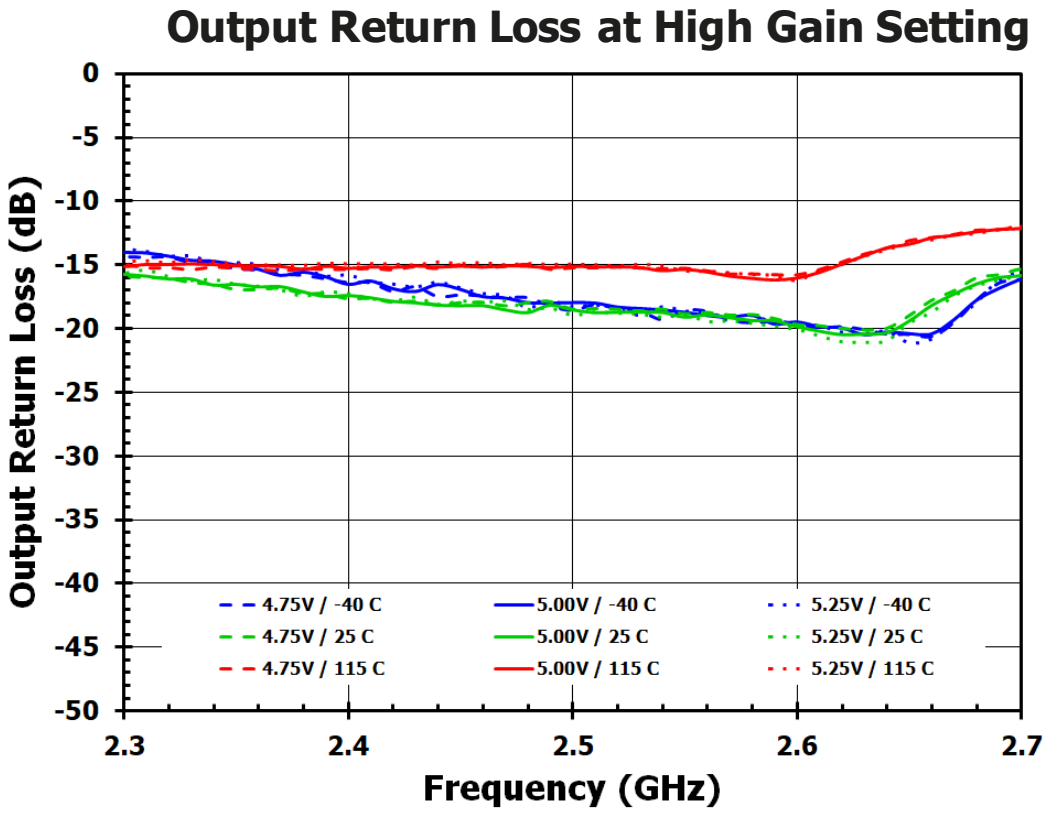
S-PARAMETERS (3 OF 4)





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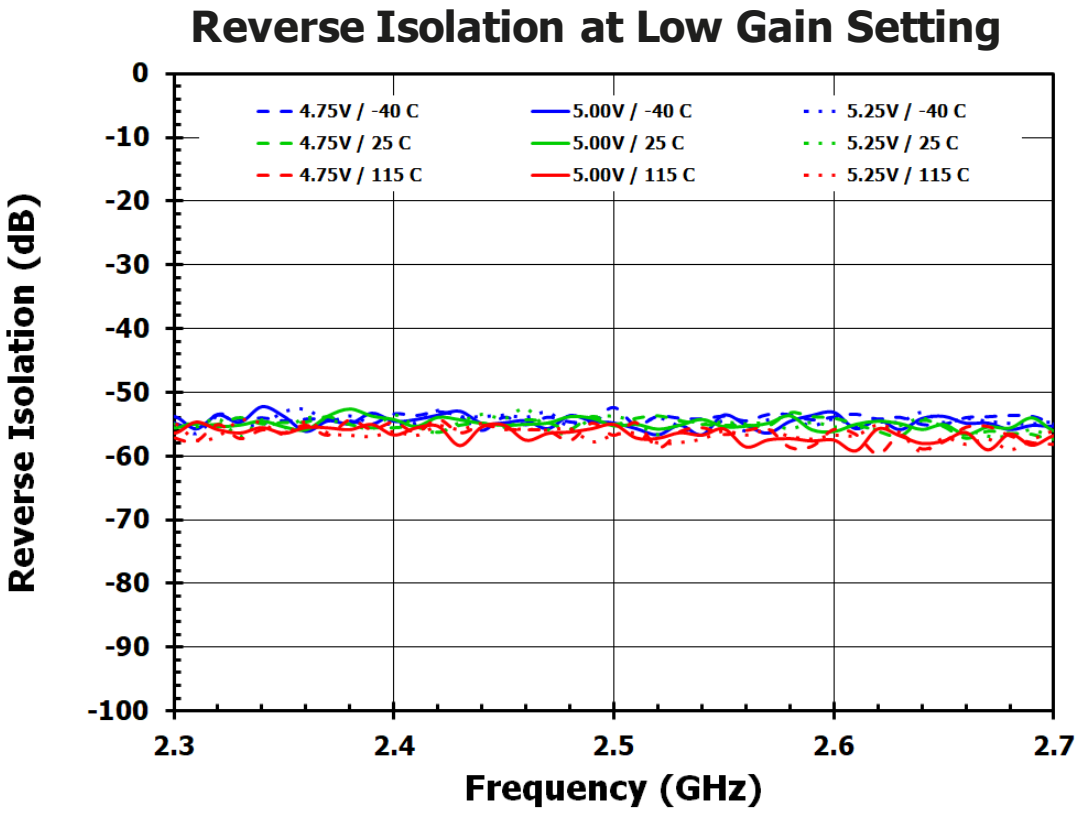
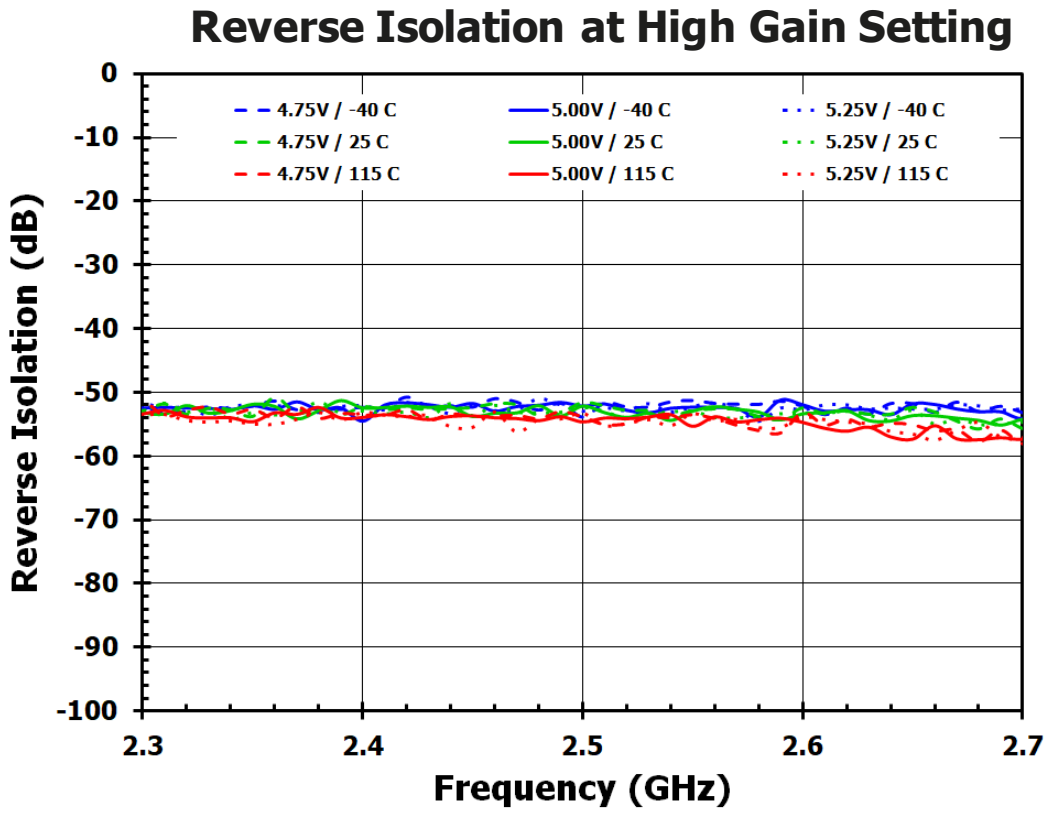
S-PARAMETERS (4 OF 4)





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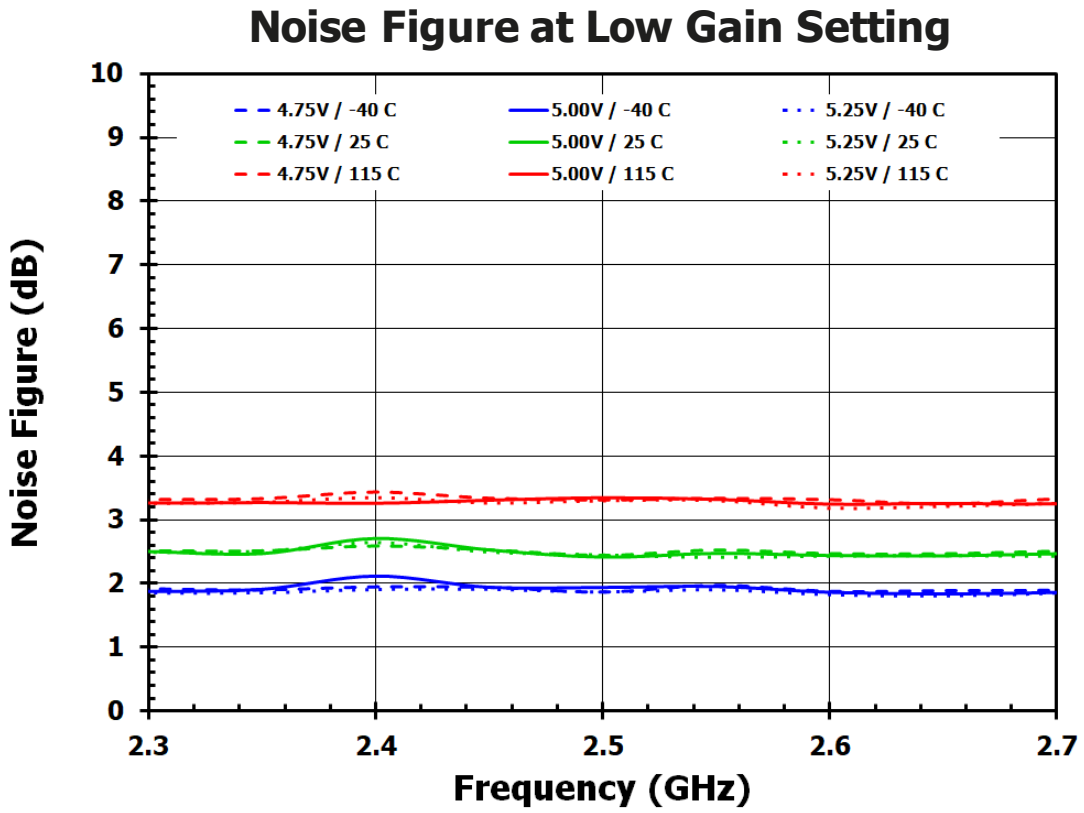
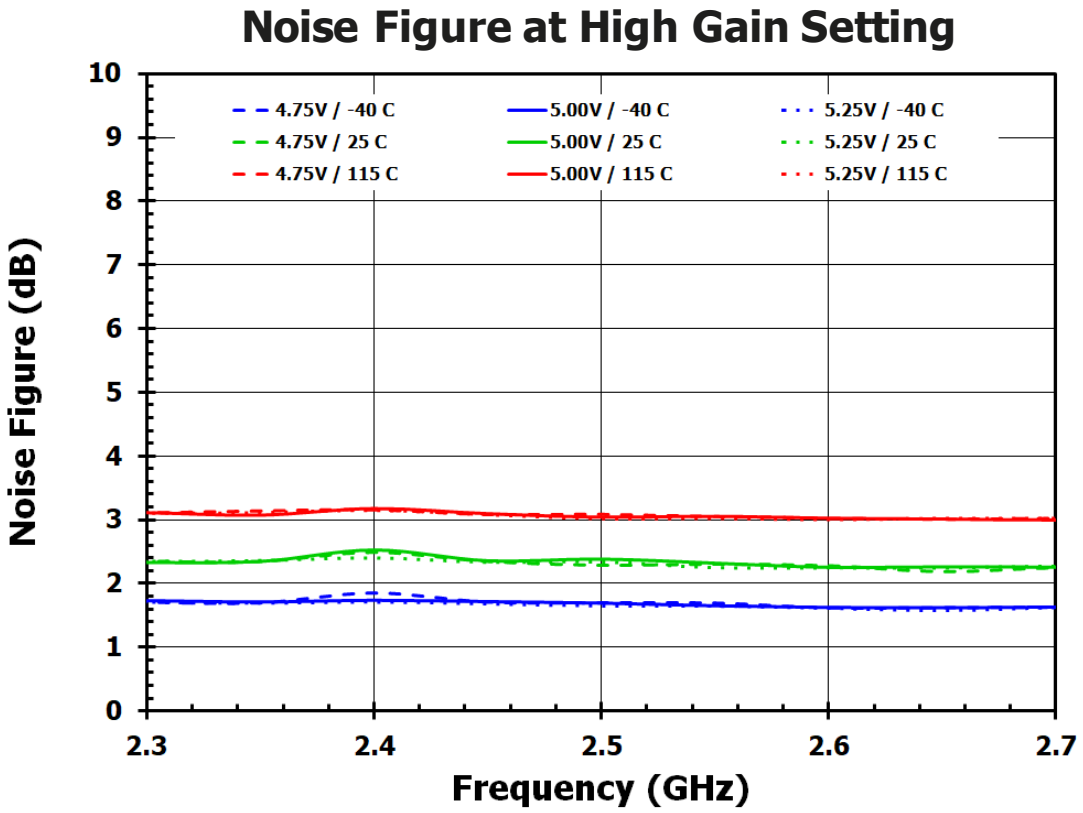
NOISE FIGURE





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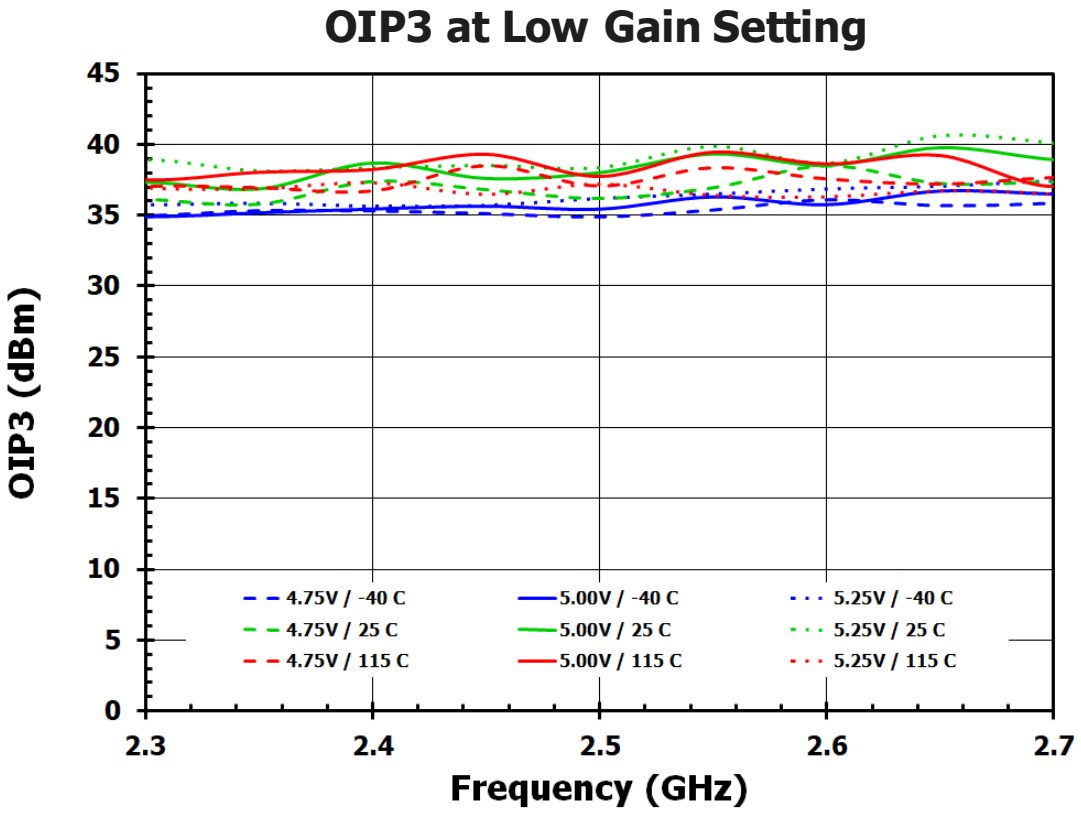

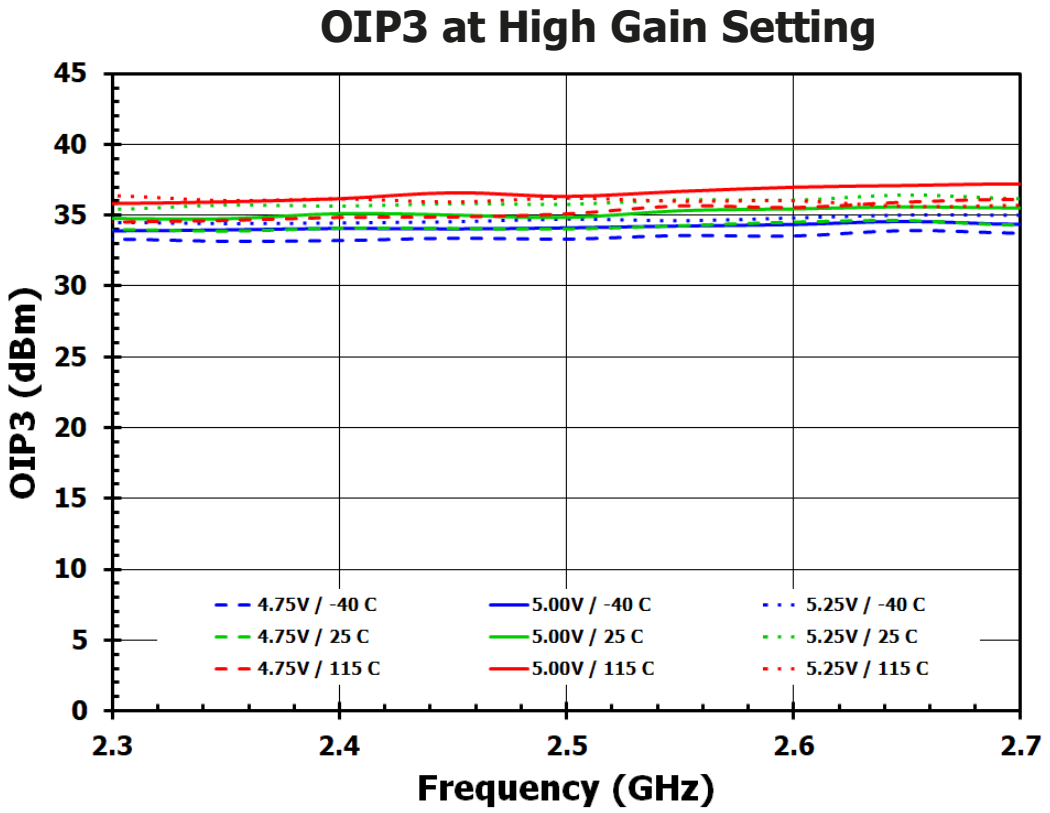

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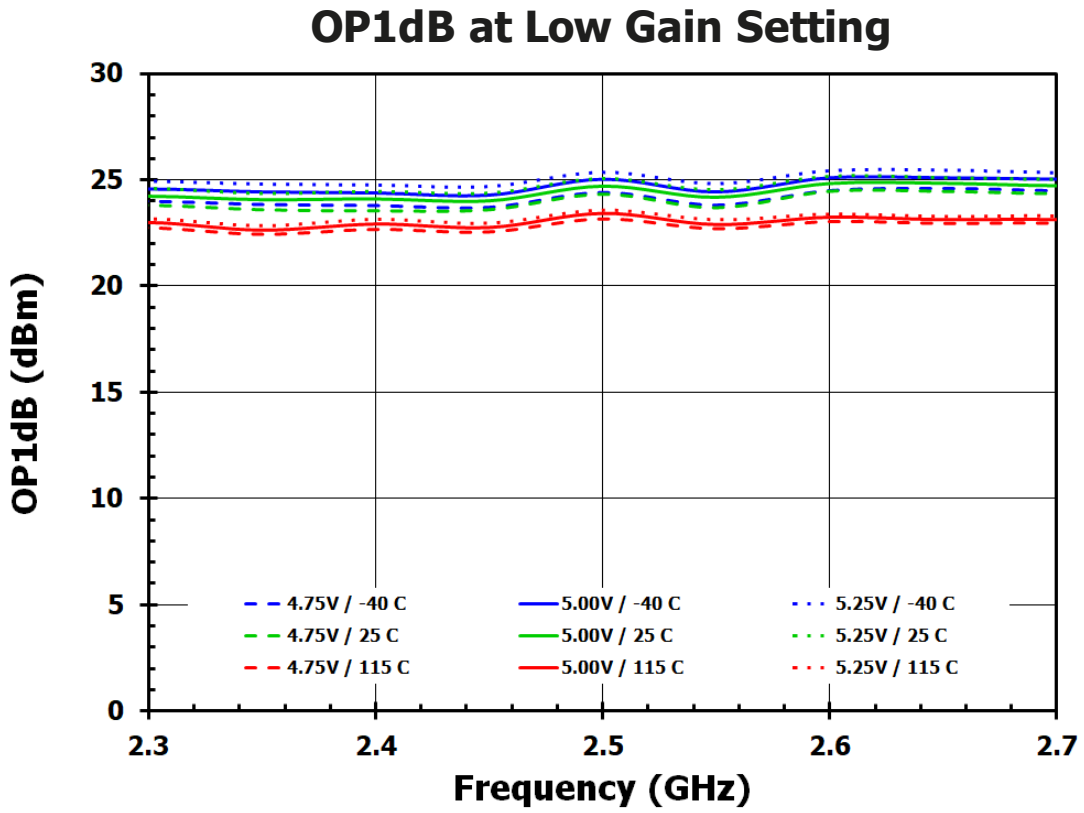

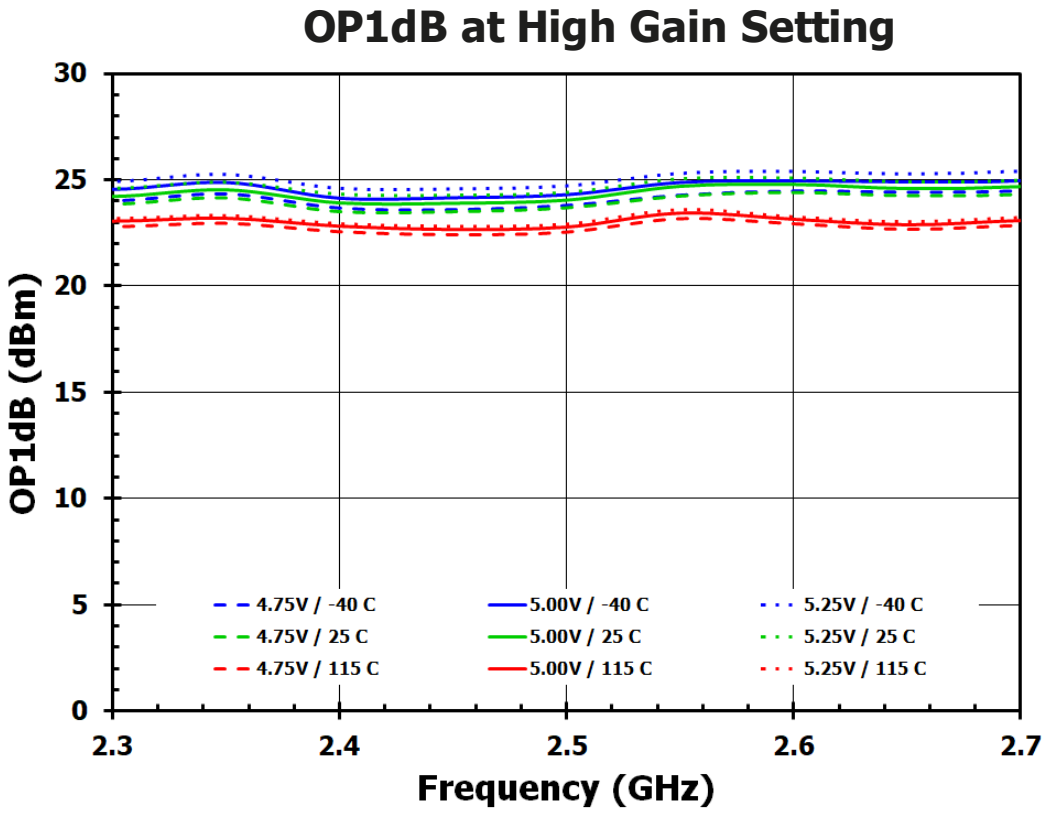

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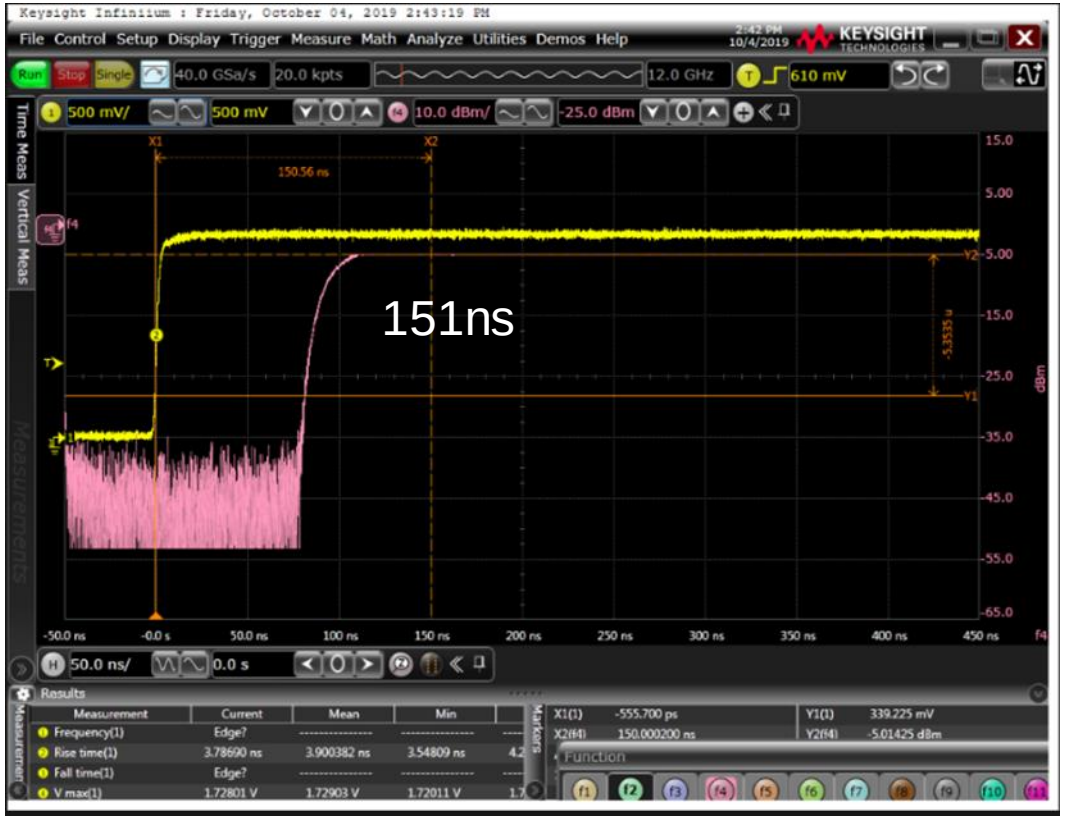
SWITCHING TIME

Power OFF time Low Gain Setting

Power ON time Low Gain Setting



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CURRENT CONSUMPTION

Gain Setting	4.75V / -40C	5.00V / -40C	5.25V / -40C	4.75V / 25C	5.00V / 25C	5.25V / 25C	4.75V / 115C	5.00V / 115C	5.25V / 115C
Low Gain	72	80	87	64	70	76	60	66	70
High Gain	72	80	87	64	72	77	61	66	70

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3.3GHZ – 3.8GHZ BOM DATA

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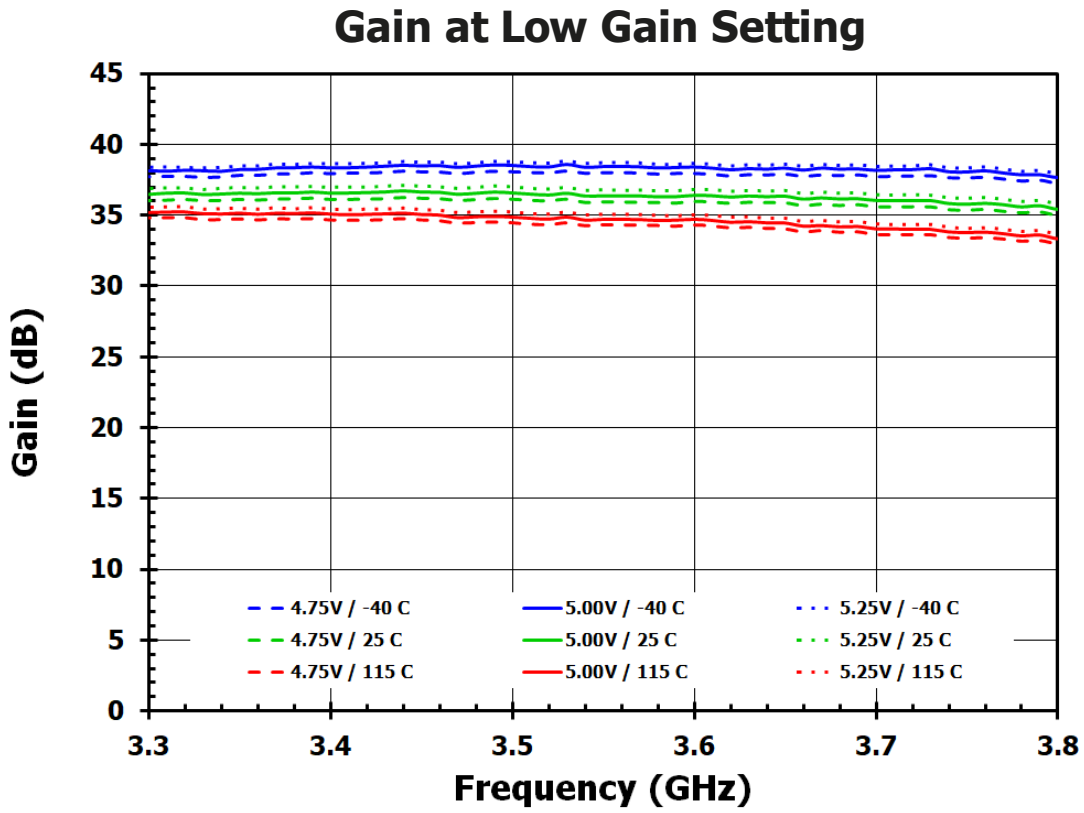

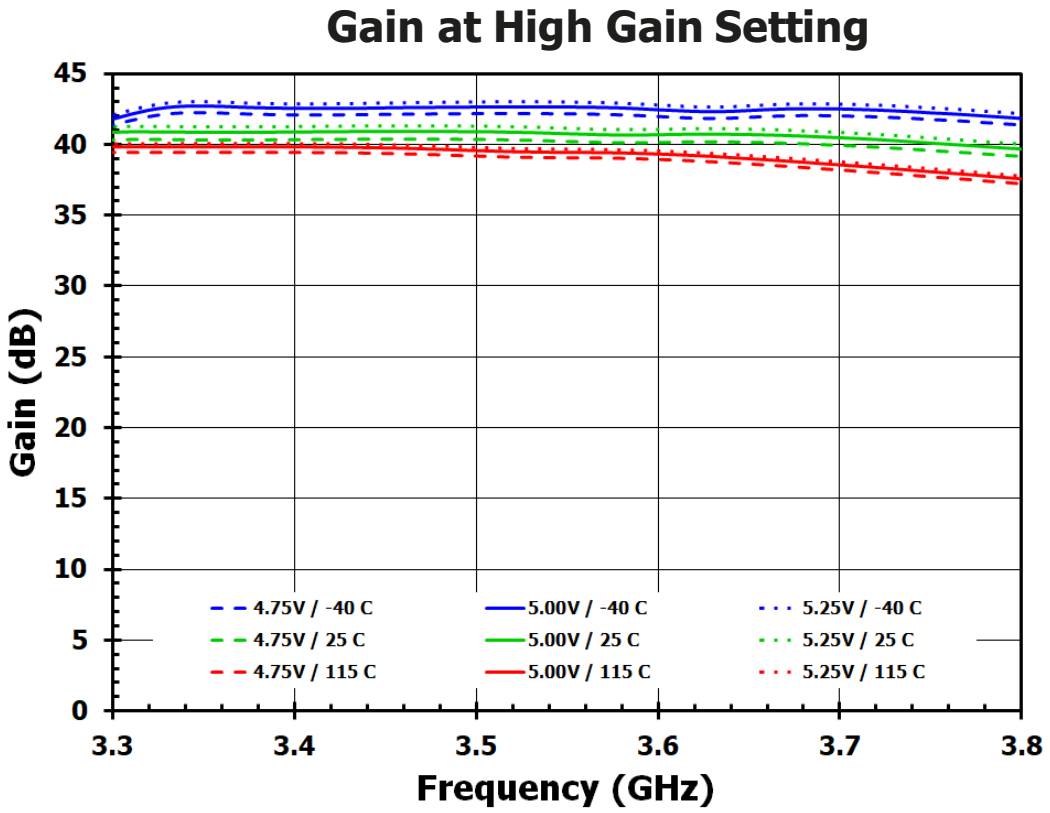

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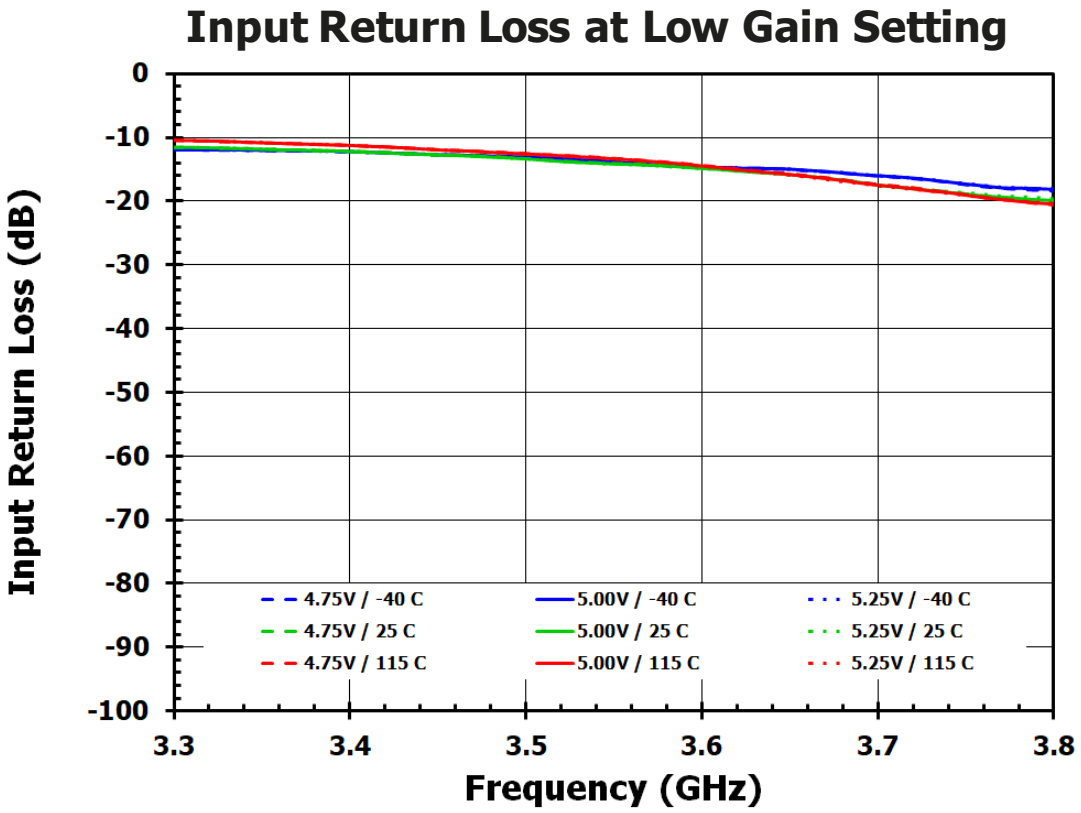
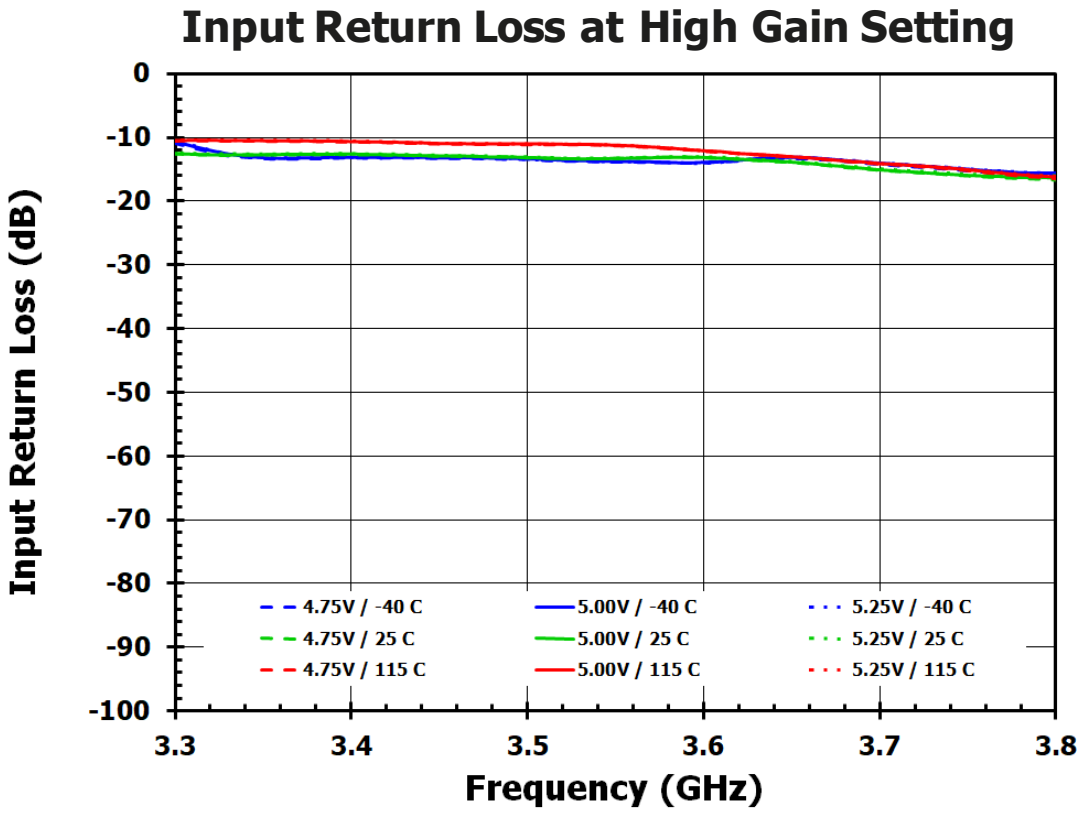
S-PARAMETERS (2 OF 4)





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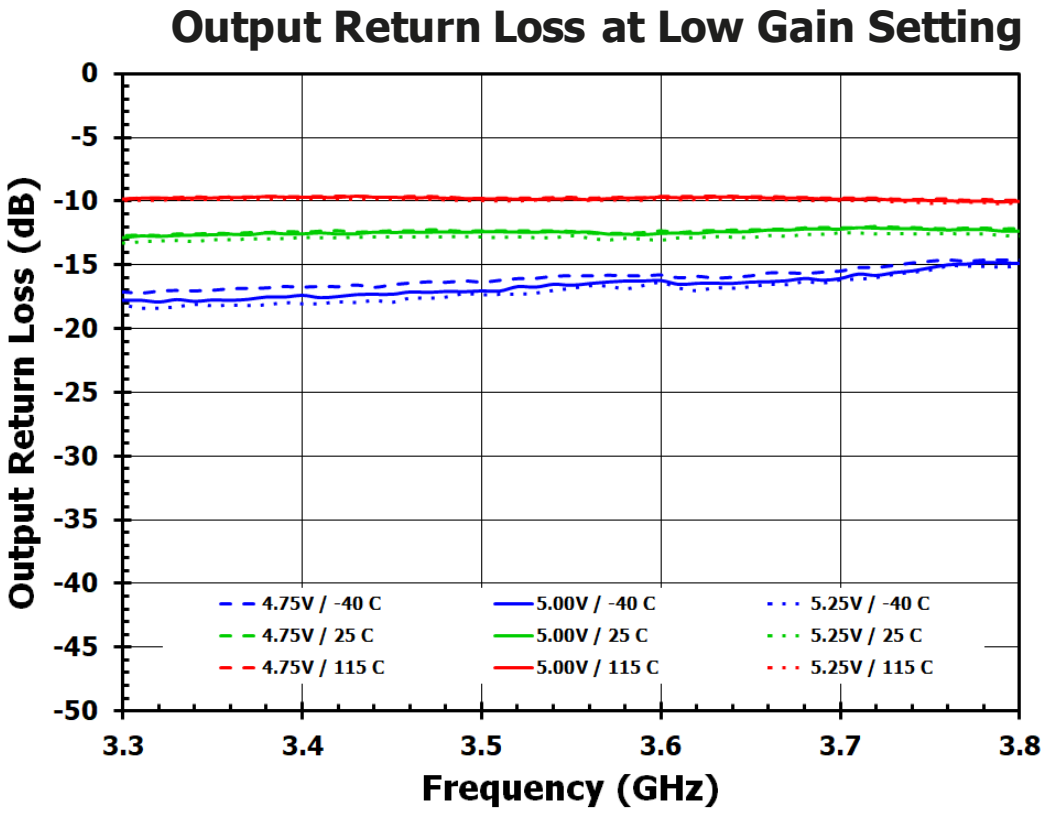
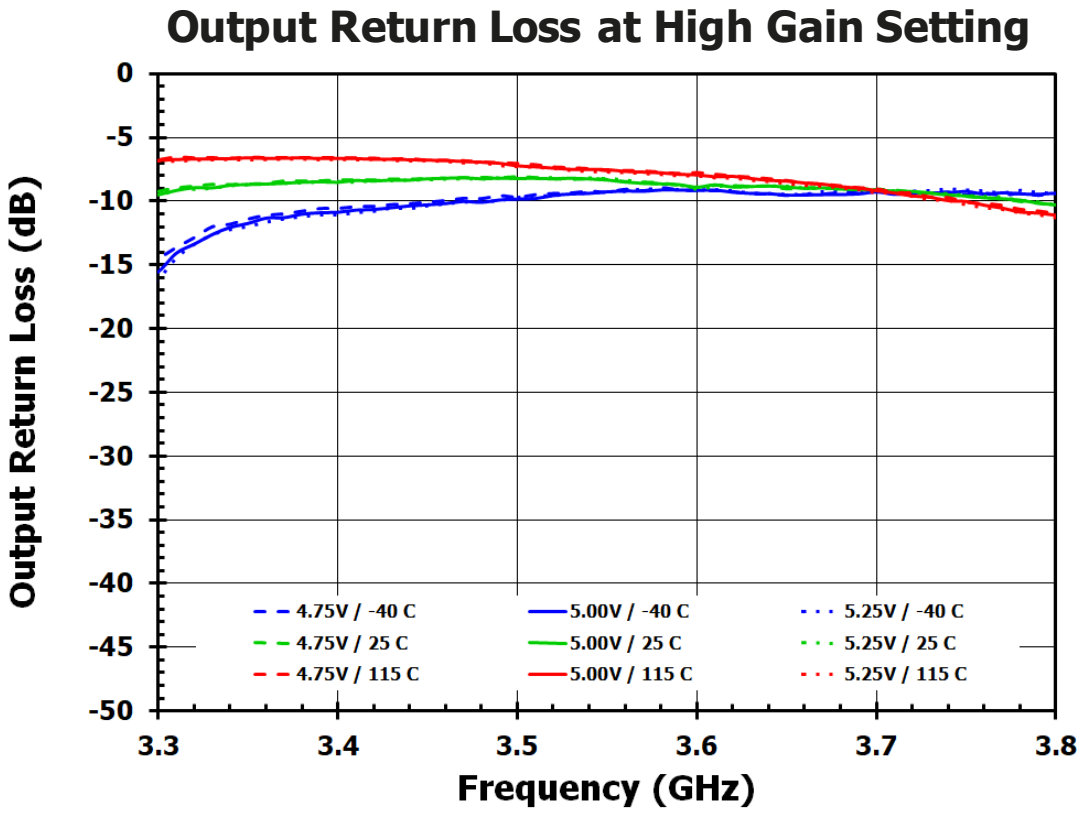
S-PARAMETERS (3 OF 4)





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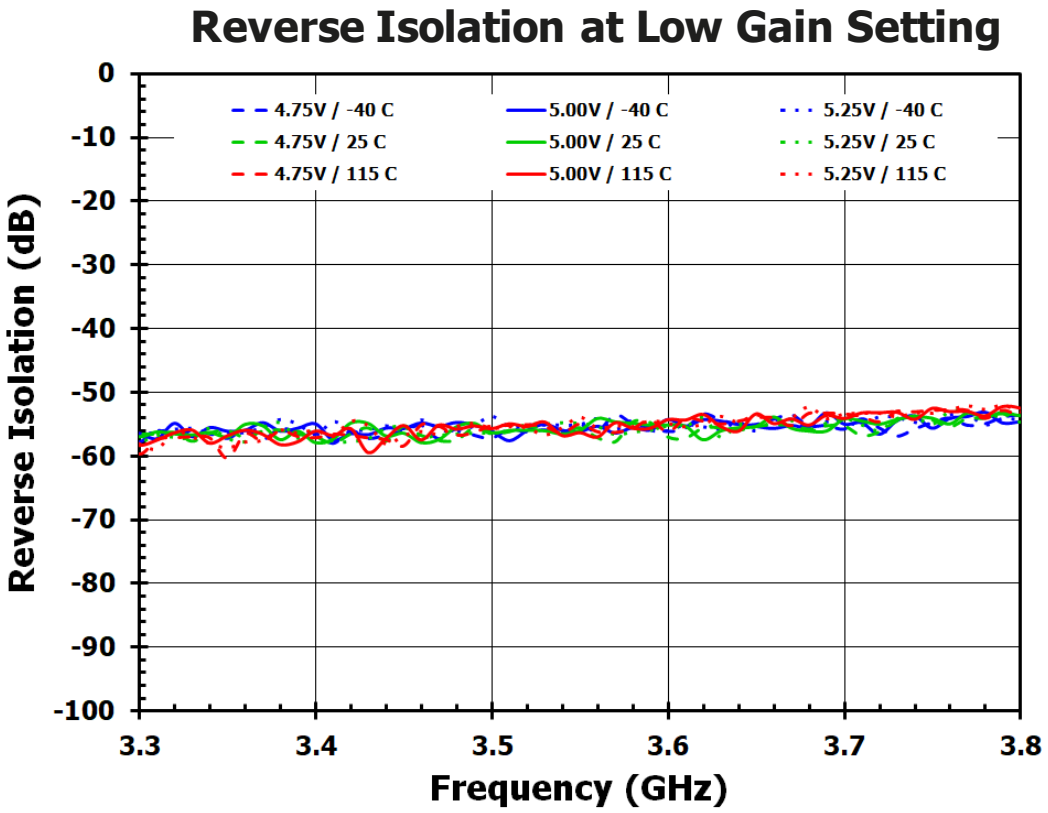

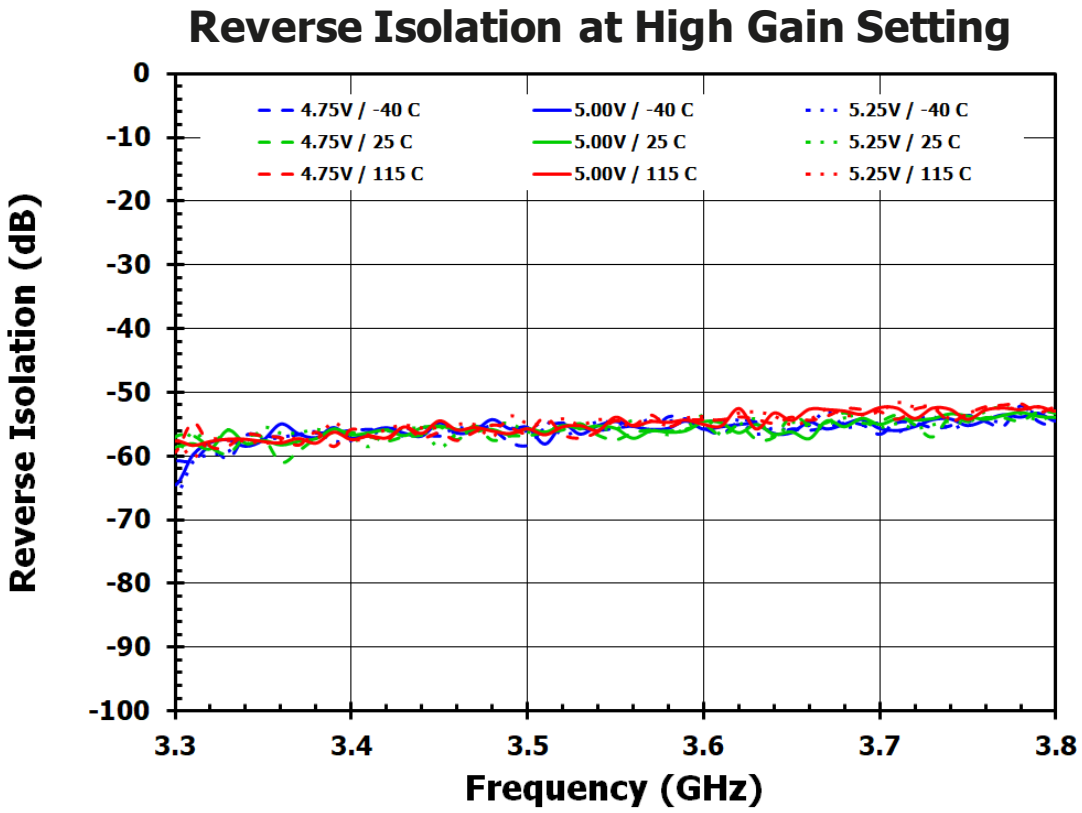

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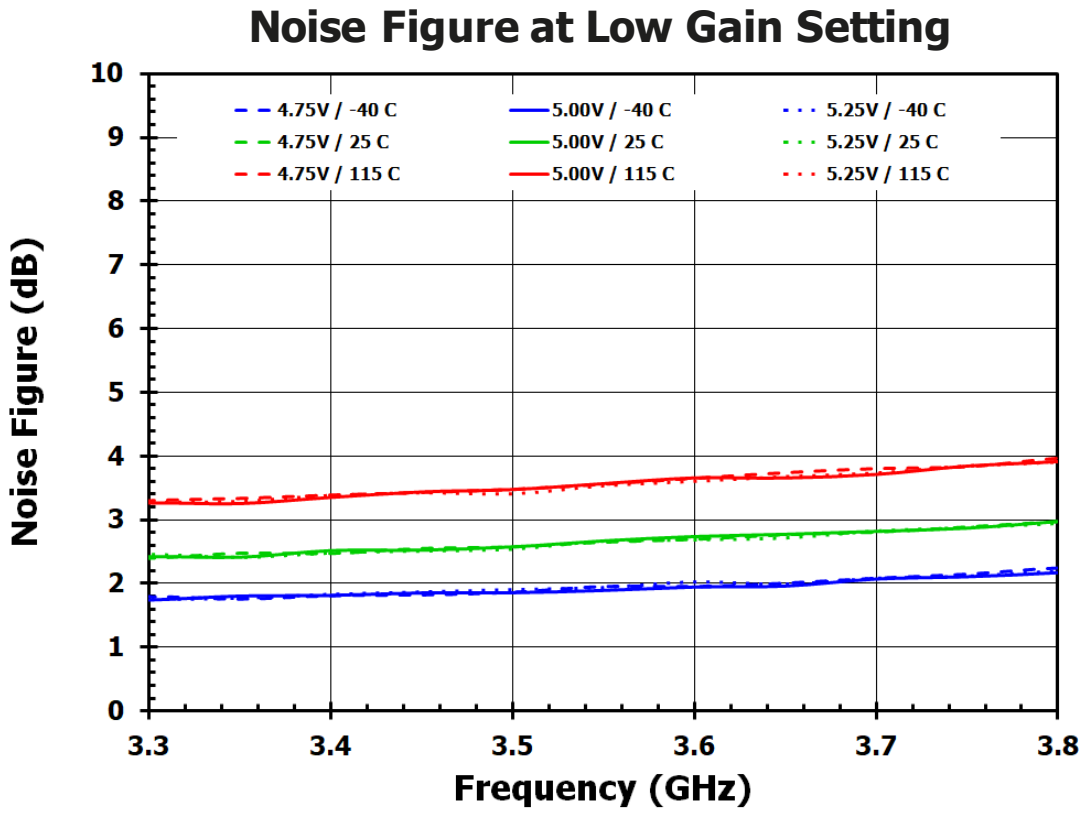
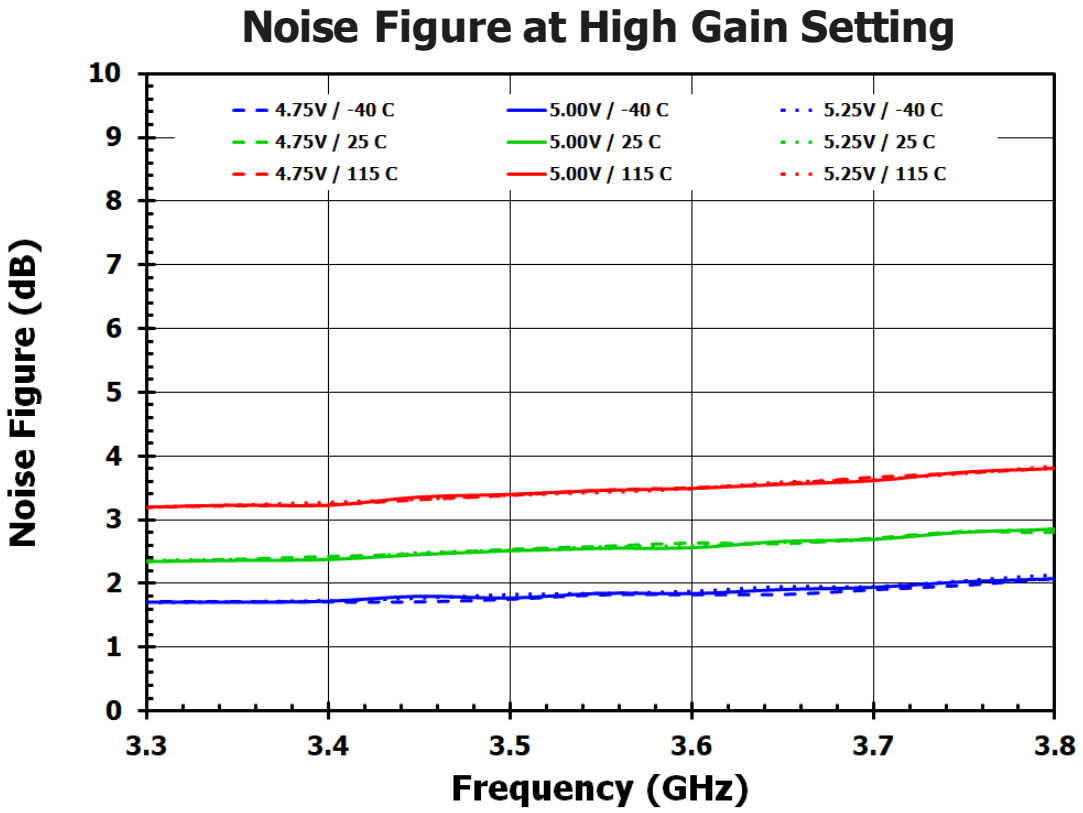
NOISE FIGURE





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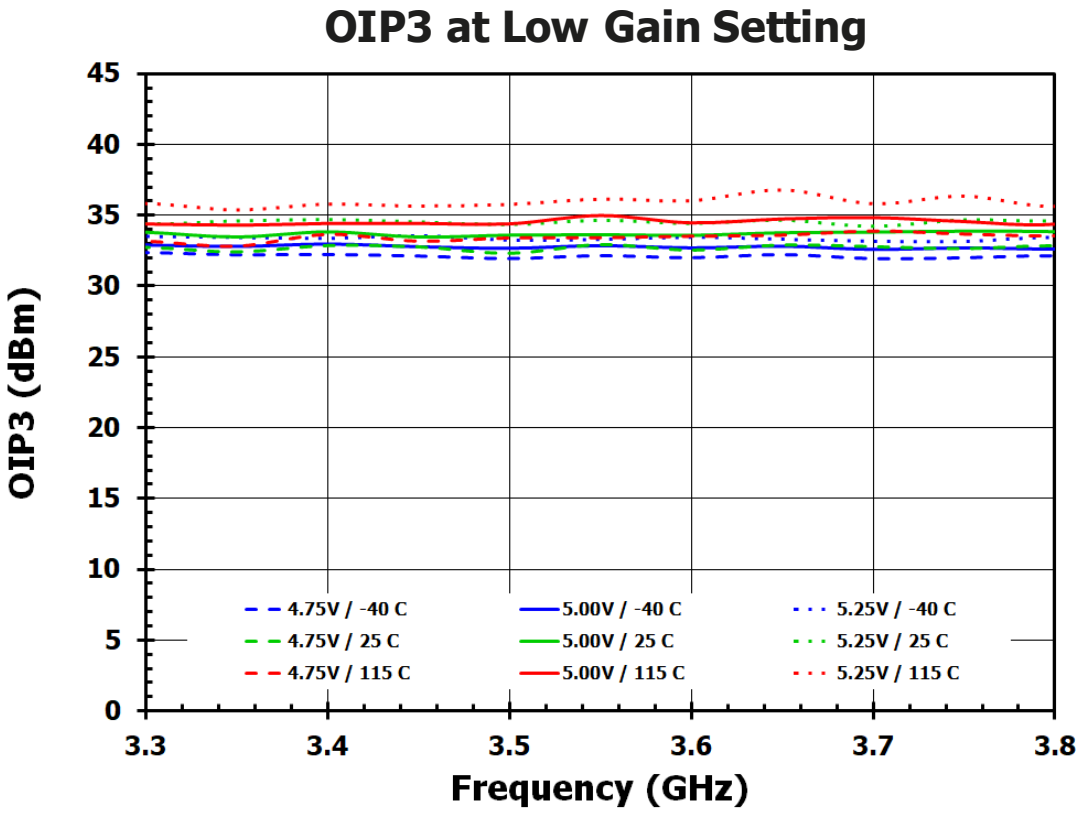

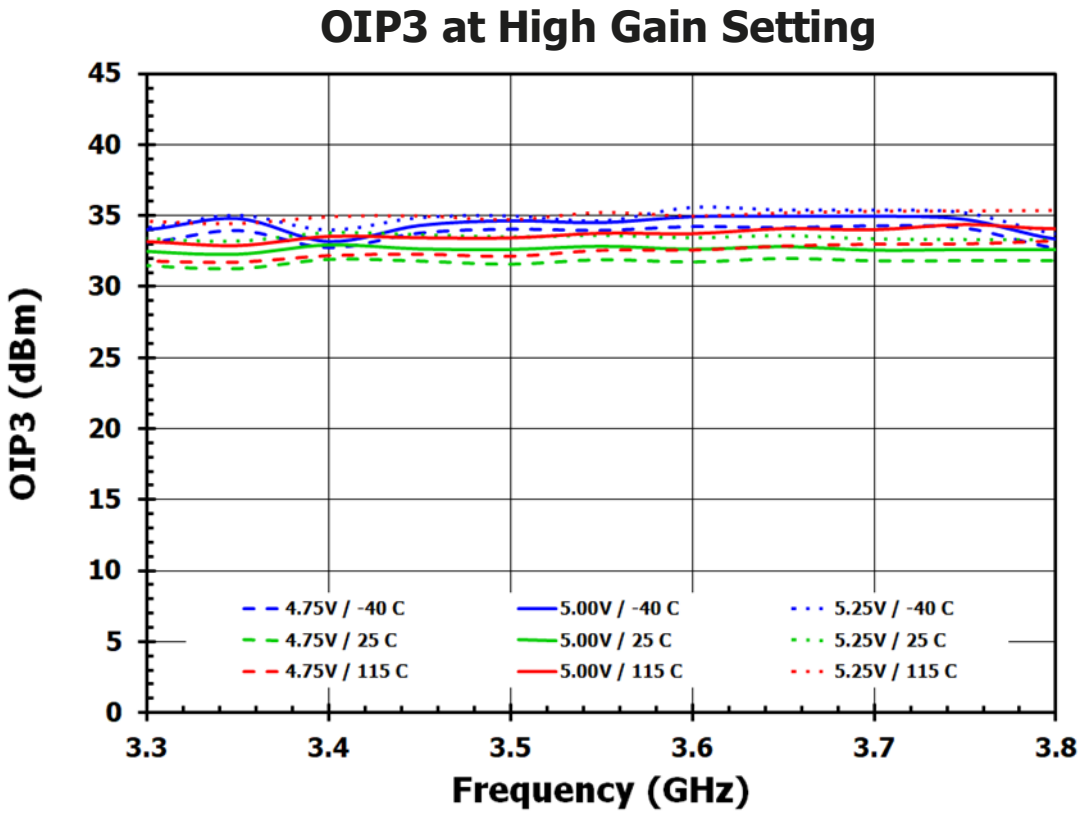

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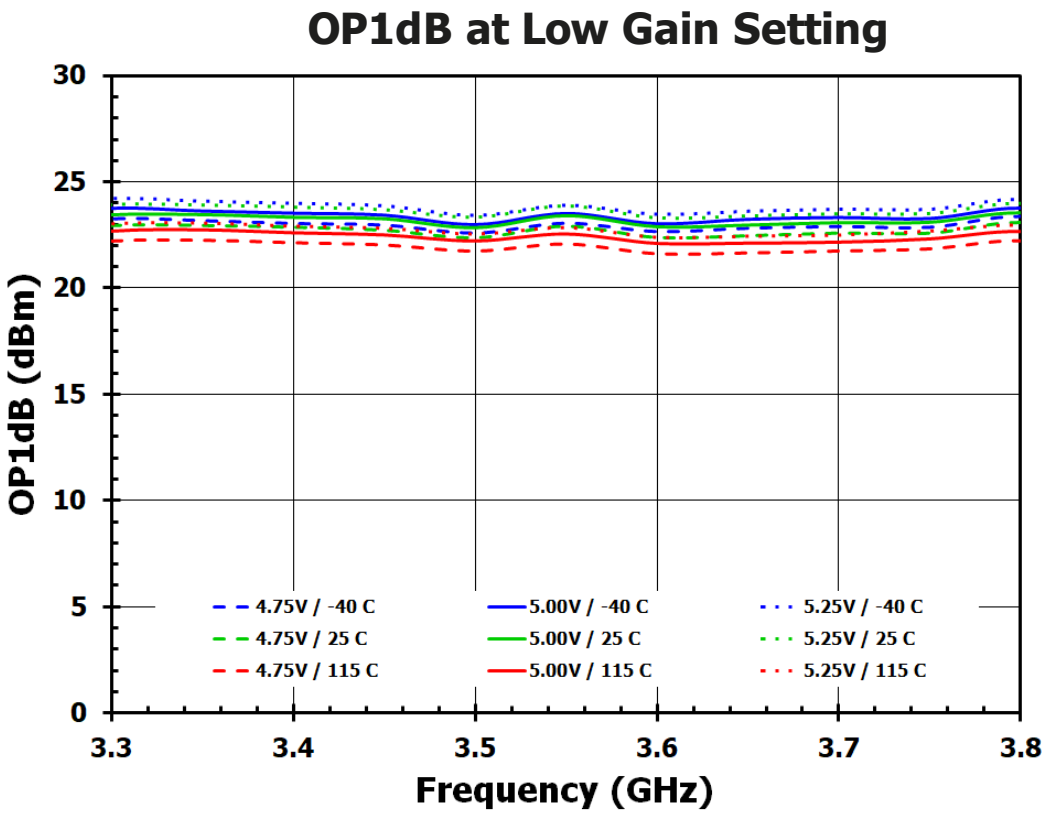

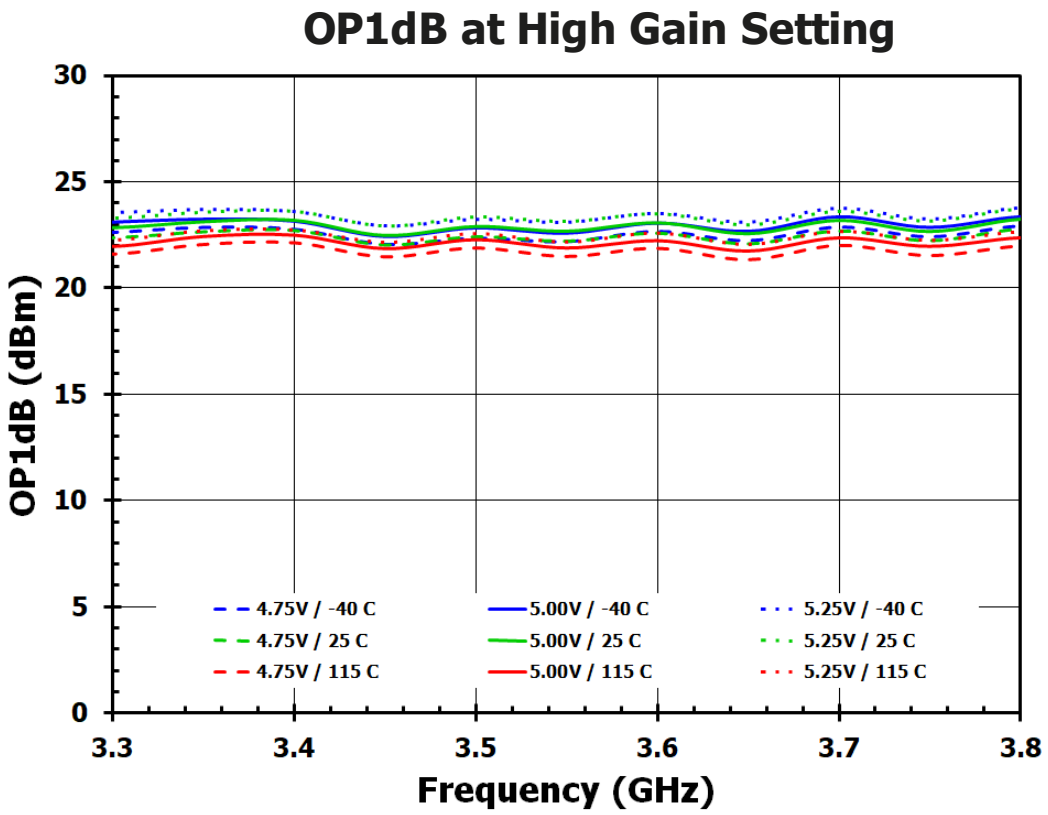

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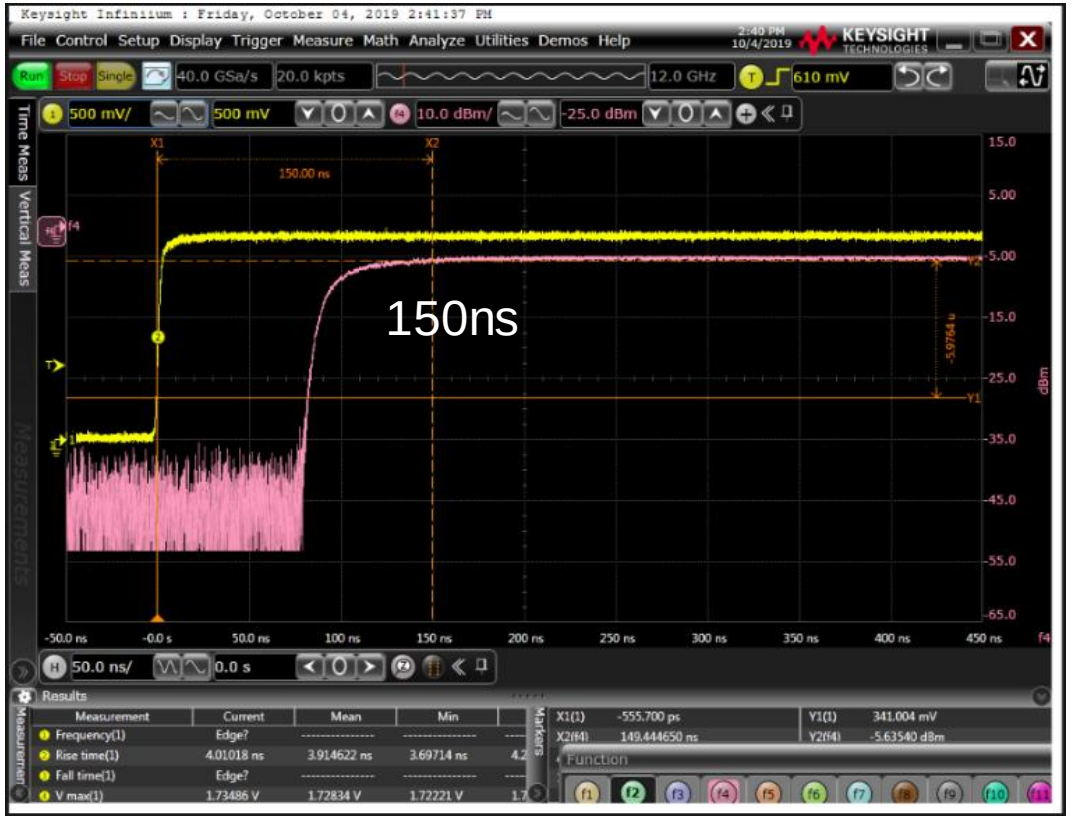
SWITCHING TIME

Power OFF time Low Gain Setting

Power ON time Low Gain Setting



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CURRENT CONSUMPTION

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Low Gain	80	88	96	68	74	80	65	69	74
High Gain	80	88	96	68	74	80	65	70	75

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THANK YOU

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