

RF MMIC Innovator

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[CLASSIFICATION] APPLICATION NOTE

[DATE] 2022.06

[REVISION NO.] REV.1.1

[MEASURING INSTRUMENTS]

- NA\_AGILENT E5071B

- SA\_AGILENT E4440A

- SG\_AGILENT N5182A

- SG\_AGILENT N5182A

## High Power Amp BMT352

### Application Note



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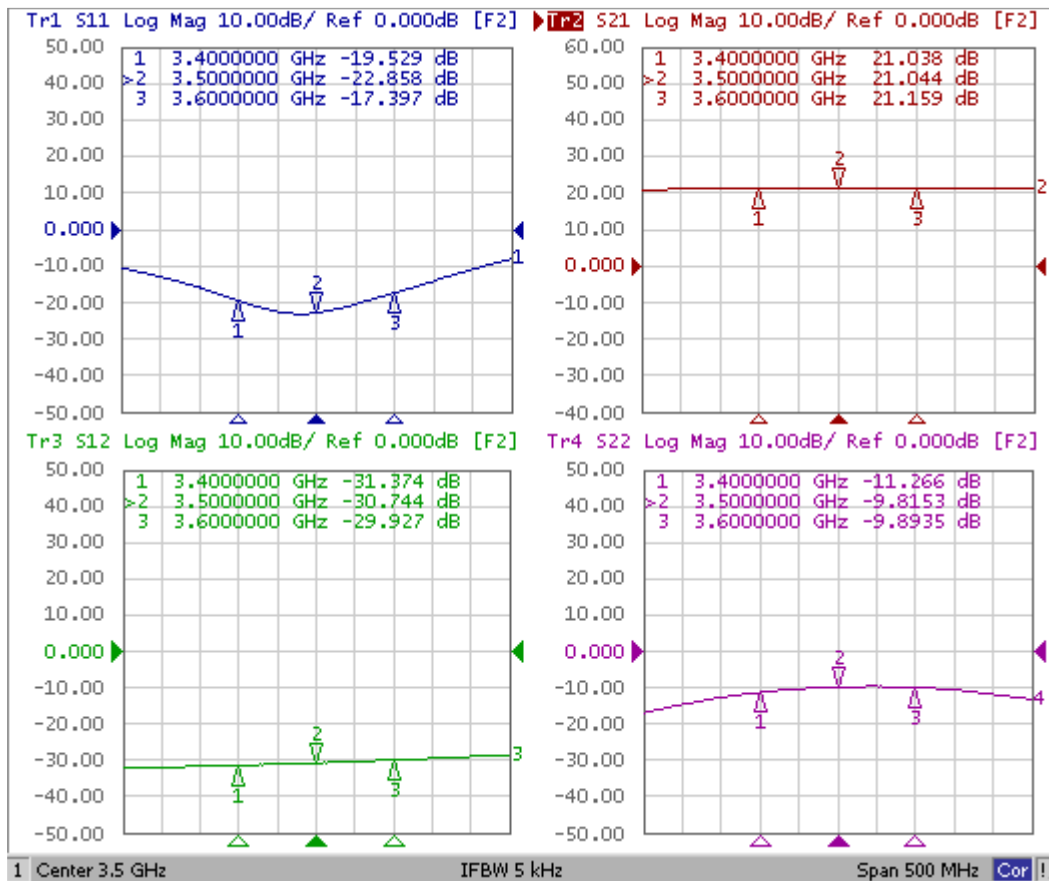
1. BMT352\_3400~3600MHz Application Note

| Schematic Diagram | BOM   | Marks  |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|-------------------|---|--------|-----------|--------|----------|-----------|------|-------|-----------|-----|-------|------------|-----|-------|------|------|--|----|------|-----|--|----|------|-----|--|----|------|------|--|----|------|------|--------|----|------|-----|--|-----|------|-----|--|-----|------|-----|--|-----|------|-----|--|-----|------|-----|--|-----|------|------|--|-----|------|-----|--|-----|------|-------|--------|-----|------|-------|--------|-----|------|-------|--------|----|------|-----|--|----|------|------|---------|----|------|-------|--|----|------|-------|--|----|------|------|--|--|
|                   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>C1</td><td>0603</td><td>1uF</td><td></td></tr> <tr><td>C2</td><td>0603</td><td>1uF</td><td></td></tr> <tr><td>C3</td><td>0603</td><td>20pF</td><td></td></tr> <tr><td>C4</td><td>0603</td><td>20pF</td><td></td></tr> <tr><td>C5</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C6</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C7</td><td>0603</td><td>20pF</td><td></td></tr> <tr><td>C8</td><td>0603</td><td>10pF</td><td>HQ Cap</td></tr> <tr><td>C9</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C10</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C11</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C12</td><td>0603</td><td>N/A</td><td></td></tr> <tr><td>C13</td><td>0603</td><td>2pF</td><td></td></tr> <tr><td>C14</td><td>0603</td><td>20pF</td><td></td></tr> <tr><td>C15</td><td>0603</td><td>1uF</td><td></td></tr> <tr><td>C16</td><td>0603</td><td>0.8pF</td><td>HQ Cap</td></tr> <tr><td>C17</td><td>0603</td><td>1.5pF</td><td>HQ Cap</td></tr> <tr><td>C18</td><td>0603</td><td>1.3pF</td><td>HQ Cap</td></tr> <tr><td>L1</td><td>0603</td><td>0 Ω</td><td></td></tr> <tr><td>L2</td><td>0805</td><td>12nH</td><td>HQ Coil</td></tr> <tr><td>R1</td><td>0603</td><td>330 Ω</td><td></td></tr> <tr><td>R2</td><td>0603</td><td>470 Ω</td><td></td></tr> <tr><td>R3</td><td>0603</td><td>20 Ω</td><td></td></tr> </table> | C1     | 0603      | 1uF    |          | C2        | 0603 | 1uF   |           | C3  | 0603  | 20pF       |     | C4    | 0603 | 20pF |  | C5 | 0603 | N/A |  | C6 | 0603 | N/A |  | C7 | 0603 | 20pF |  | C8 | 0603 | 10pF | HQ Cap | C9 | 0603 | N/A |  | C10 | 0603 | N/A |  | C11 | 0603 | N/A |  | C12 | 0603 | N/A |  | C13 | 0603 | 2pF |  | C14 | 0603 | 20pF |  | C15 | 0603 | 1uF |  | C16 | 0603 | 0.8pF | HQ Cap | C17 | 0603 | 1.5pF | HQ Cap | C18 | 0603 | 1.3pF | HQ Cap | L1 | 0603 | 0 Ω |  | L2 | 0805 | 12nH | HQ Coil | R1 | 0603 | 330 Ω |  | R2 | 0603 | 470 Ω |  | R3 | 0603 | 20 Ω |  |  |
|                   | C1  | 0603   | 1uF       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C2  | 0603   | 1uF       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C3  | 0603   | 20pF      |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C4  | 0603   | 20pF      |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C5  | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C6  | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C7  | 0603   | 20pF      |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C8  | 0603   | 10pF      | HQ Cap |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C9  | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C10   | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C11   | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C12   | 0603   | N/A       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C13   | 0603   | 2pF       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C14   | 0603   | 20pF      |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C15   | 0603   | 1uF       |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C16   | 0603   | 0.8pF     | HQ Cap |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | C17   | 0603   | 1.5pF     | HQ Cap |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| C18               | 0603  | 1.3pF  | HQ Cap    |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| L1                | 0603  | 0 Ω    |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| L2                | 0805  | 12nH   | HQ Coil   |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| R1                | 0603  | 330 Ω  |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| R2                | 0603  | 470 Ω  |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| R3                | 0603  | 20 Ω   |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| PCB Diagram       | Notice  |        |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | <p>Below information is subject to change as conditions of the substrate.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Reference</th> <th>Object</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td>Input pin</td> <td>C17</td> <td>9.3mm</td> </tr> <tr> <td>Input pin</td> <td>C16</td> <td>1.5mm</td> </tr> <tr> <td>Output pin</td> <td>C18</td> <td>2.0mm</td> </tr> </tbody> </table> <p>1. C8 &amp; C17 &amp; C16 &amp; C18 :<br/>We recommend High-Q capacitor for better output power performance. We used Johanson Tech's capacitor .</p>  |        | Reference | Object | Distance | Input pin | C17  | 9.3mm | Input pin | C16 | 1.5mm | Output pin | C18 | 2.0mm |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | Reference   | Object | Distance  |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | Input pin   | C17    | 9.3mm     |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   | Input pin   | C16    | 1.5mm     |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
| Output pin        | C18   | 2.0mm  |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   |   |        |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |
|                   |   |        |           |        |          |           |      |       |           |     |       |            |     |       |      |      |  |    |      |     |  |    |      |     |  |    |      |      |  |    |      |      |        |    |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |     |  |     |      |      |  |     |      |     |  |     |      |       |        |     |      |       |        |     |      |       |        |    |      |     |  |    |      |      |         |    |      |       |  |    |      |       |  |    |      |      |  |  |

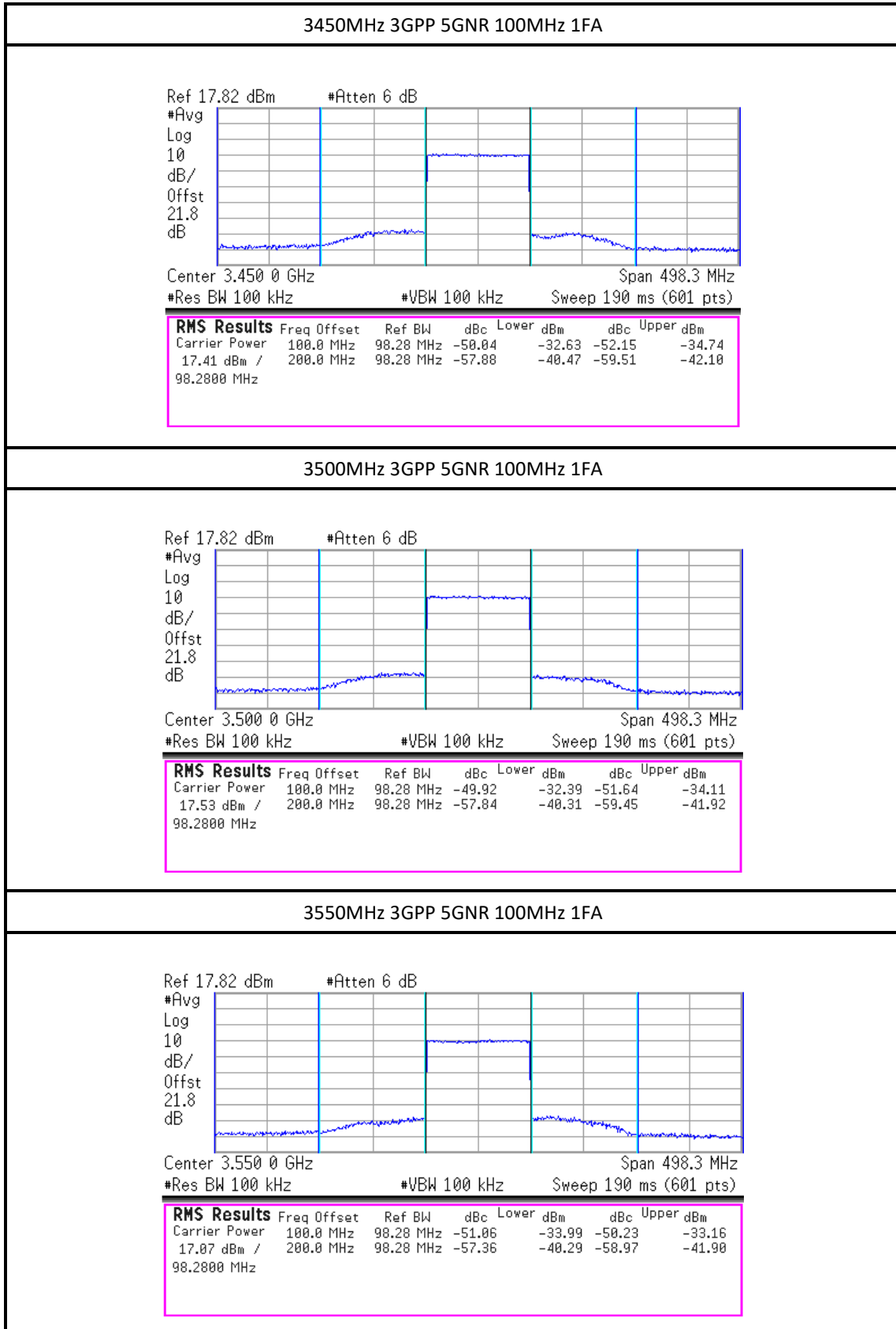
1.1 BMT352\_3400~3600MHz Test Result

| No. | Freq [MHz] | Vcc [V] | Icq [mA] | Gain [dB] | OIP3 [dBm] <sup>(1)</sup> | P1dB [dBm] | IRL [dB] | ORL [dB] | NF [dB] |
|-----|------------|---------|----------|-----------|---------------------------|------------|----------|----------|---------|
| #22 | 3400       | 5       | 366      | 21.0      | 46.9                      | 31.2       | -19.5    | -11.3    | -       |
| #22 | 3500       | 5       | 366      | 21.0      | 44.5                      | 30.5       | -22.9    | -9.8     | -       |
| #22 | 3600       | 5       | 366      | 21.2      | 43.1                      | 30.3       | -17.4    | -9.9     | -       |

(1) OIP3 was tested @Pout=17dBm/tone (CW) 1MHz offset



### 1.2 BMT352\_3400~3600MHz 5GNR 1FA ACLR Test Result



2. BMT352\_3600~3800MHz Application Note

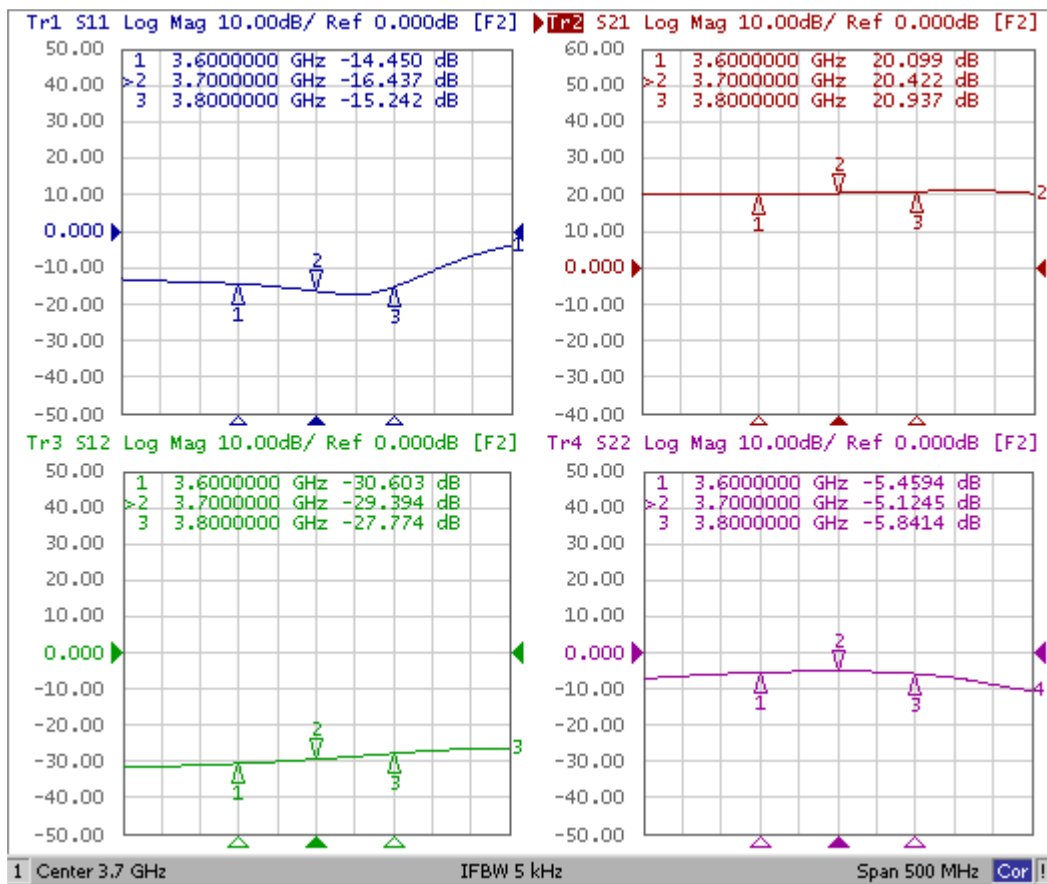
| Schematic Diagram |      | BOM   | Marks   |        |
|-------------------|------|-------|---------|--------|
|                   | C1   | 0603  | 1uF     |        |
|                   | C2   | 0603  | 1uF     |        |
|                   | C3   | 0603  | 20pF    |        |
|                   | C4   | 0603  | 20pF    |        |
|                   | C5   | 0603  | N/A     |        |
|                   | C6   | 0603  | N/A     |        |
|                   | C7   | 0603  | 20pF    |        |
|                   | C8   | 0603  | 10pF    | HQ Cap |
|                   | C9   | 0603  | N/A     |        |
|                   | C10  | 0603  | N/A     |        |
|                   | C11  | 0603  | N/A     |        |
|                   | C12  | 0603  | N/A     |        |
|                   | C13  | 0603  | 2pF     |        |
|                   | C14  | 0603  | 20pF    |        |
|                   | C15  | 0603  | 1uF     |        |
|                   | C16  | 0603  | 0.8pF   | HQ Cap |
|                   | C17  | 0603  | 1.2pF   | HQ Cap |
|                   | C18  | 0603  | 1.2pF   | HQ Cap |
|                   | C19  | 0603  | 0.3pF   | HQ Cap |
| L1                | 0603 | 0 Ω   |         |        |
| L2                | 0805 | 12nH  | HQ Coil |        |
| R1                | 0603 | 330 Ω |         |        |
| R2                | 0603 | 470 Ω |         |        |
| R3                | 0603 | 20 Ω  |         |        |

| PCB Diagram  |  | Notice |          |
|--|--|--------|----------|
|  | Below information is subject to change as conditions of the substrate. |        |          |
|  | Reference  | Object | Distance |
|  | Input pin  | C17    | 8.3mm    |
|  | Input pin  | C16    | 1.5mm    |
|  | Output pin   | C18    | 1.0mm    |
| Output pin   | C19  | 2.0mm  |          |
| <p>1. C8 &amp; C17 &amp; C16 &amp; C18 &amp; C19: We recommend High-Q capacitor for better output power performance. We used Johanson Tech's capacitor .</p> |  |        |          |
|  |  |        |          |
|  |  |        |          |

## 2.1 BMT352\_3600~3800MHz Test Result

| No. | Freq [MHz] | Vcc [V] | Icq [mA] | Gain [dB] | OIP3 [dBm] <sup>(1)</sup> | P1dB [dBm] | IRL [dB] | ORL [dB] | NF [dB] |
|-----|------------|---------|----------|-----------|---------------------------|------------|----------|----------|---------|
| #6  | 3600       | 5       | 366      | 20.1      | 45.8                      | 32.2       | -14.5    | -5.5     | -       |
| #6  | 3700       | 5       | 366      | 20.4      | 45.1                      | 32.0       | -16.4    | -5.1     | -       |
| #6  | 3800       | 5       | 366      | 20.9      | 39.3                      | 31.1       | -15.2    | -5.8     | -       |

(1) OIP3 was tested @Pout=17dBm/tone (CW) 1MHz offset



### 2.2 BMT352\_3600~3800MHz 5GNR 1FA ACLR Test Result

