



**SUMMARY TEST DATA  
ON  
P7T-0R8G18G-60-T-SFF-SMC-LD**

Customer: \_\_\_\_\_  
SO No: \_\_\_\_\_  
Model No: P7T-0R8G18G-60-T-SFF-SMC-LD  
Serial No: PL32601/2122

Tested By: A. Lopez  
Temperature: +25°C  
Date: 6/2/2021  
Drawing No: 27638800 Rev: A1

| TEST<br>ITEM NO.                           | PARAMETERS               |                       | SPECIFIED VALUE                                                                                                            |                          | TEST RESULTS                                                                                     |                                                      | QA<br>QC            |
|--------------------------------------------|--------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------|---------------------|
| 1                                          | Frequency Range:         |                       | 0.8 GHz to 18 GHz                                                                                                          |                          | 0.8 GHz to 18 GHz                                                                                |                                                      | <b>PMI<br/>QA 2</b> |
| 2                                          | Insertion Loss:          |                       | 4.3 dB Max.                                                                                                                |                          | 4.25 dB<br>(See Plot)                                                                            |                                                      |                     |
| 3                                          | Amplitude Balance:       |                       | $\pm 1.0$ dB Max.<br>@ Room Temp.                                                                                          |                          | $\pm 0.64$ dB<br>(See Plot)                                                                      |                                                      |                     |
| 4                                          | Phase Balance:           |                       | $\pm 20.0^\circ$ Max.<br>@ Room Temp.                                                                                      |                          | $\pm 19.57^\circ$<br>(See Plot)                                                                  |                                                      |                     |
| 5                                          | Isolation:               |                       | 60 dB Min.                                                                                                                 |                          | 68 dB<br>(See Plot)                                                                              |                                                      |                     |
| 6                                          | VSWR:                    |                       | In/Out: 2.0:1<br>Out/Off: 2.0:1                                                                                            |                          | 1.95:1 In/Out<br>1.96:1 Out/Off<br>(See Plot)                                                    |                                                      |                     |
| 7                                          | Switching Speed:         |                       | Rise: 15 ns Max.<br>Fall: 15 ns Max.<br>Delay ON: 75 ns Max.<br>Delay OFF: 75 ns Max.                                      |                          | Rise: 15 ns<br>Fall: 15 ns<br>Delay On: 75 ns<br>Delay Off: 75 ns<br>See Typical Characteristics |                                                      |                     |
| 8                                          | Input Power:             |                       | +20 dBm CW (Standard)<br>+1 W CW (Survival)                                                                                |                          | Pass<br>See Typical Characteristics                                                              |                                                      |                     |
| 9                                          | DC Supply:               |                       | +5 V @ 350 mA Max.<br>-5 V @ 100 mA Max.                                                                                   |                          | +5 V @ 300 mA<br>-5 V @ 50 mA                                                                    |                                                      |                     |
| 10                                         | Control Signal:          |                       | TTL "0" $\rightarrow$ (On) 0 to +0.8VDC (Closed<br>Circuit)<br>TTL "1" $\rightarrow$ (Off) = +2 to +5VDC (Open<br>Circuit) |                          | Pass                                                                                             |                                                      | <b>PMI<br/>QA 2</b> |
| Specifications<br>Required                 | Insertion Loss<br>4.3 dB | VSWR<br>(2:1/9.54 dB) | Isolation<br>60 dB                                                                                                         | Switching<br>Speed 75 ns | Power<br>$\leq 20$ dBm (Std)<br>$\leq 30$ dBm (Survival)                                         | Avg unit Error<br>incl. Temp.<br>Waves $\leq 0.2$ dB |                     |
| Performance<br>Variation<br>Inconsistency* | $\pm 1.0$ dB             | $\pm 1$ dB            | $\pm 5$ dB                                                                                                                 | $\pm 5$ ns               | Compliant                                                                                        | $\leq 0.75$ dB                                       |                     |

QA/QC Approval:  **PMI  
QA 2**

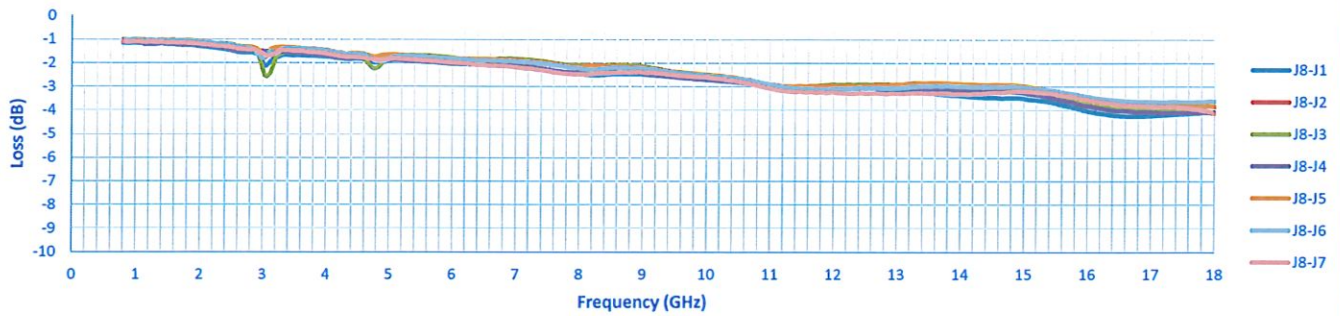
Date: 6/4/21



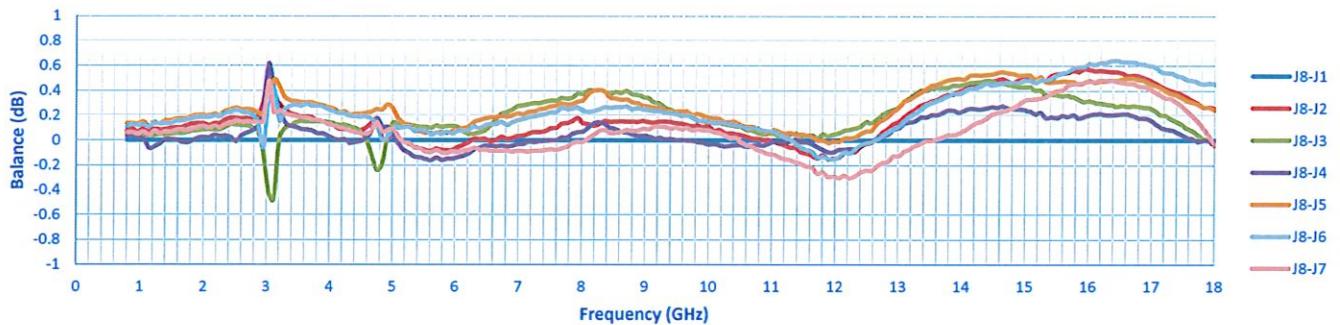
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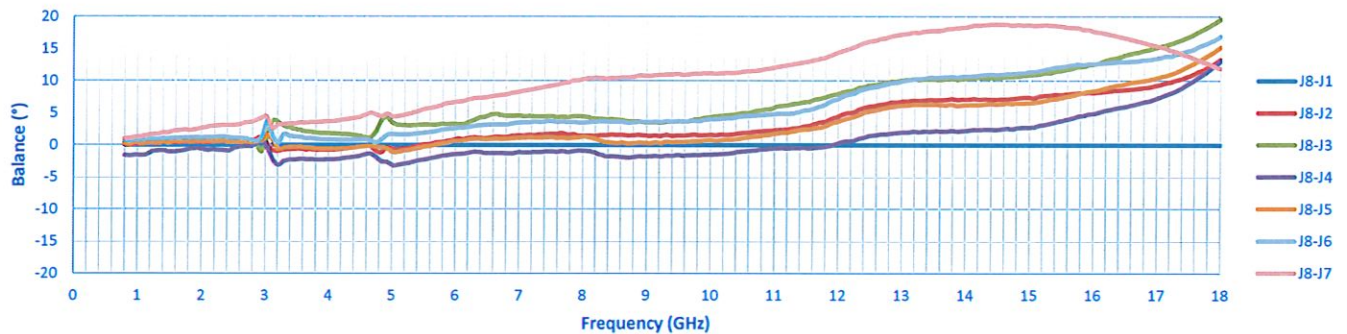
### Insertion Loss



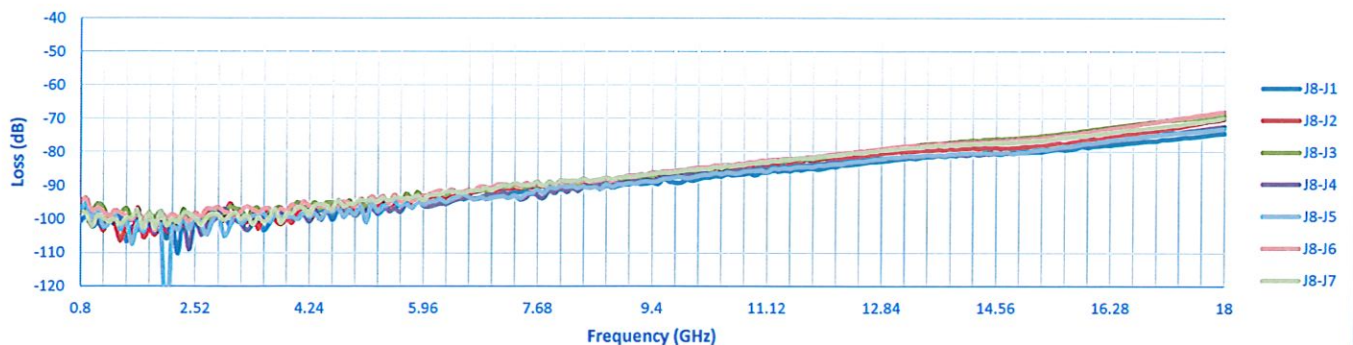
### Amplitude Balance



### Phase Balance



### Isolation



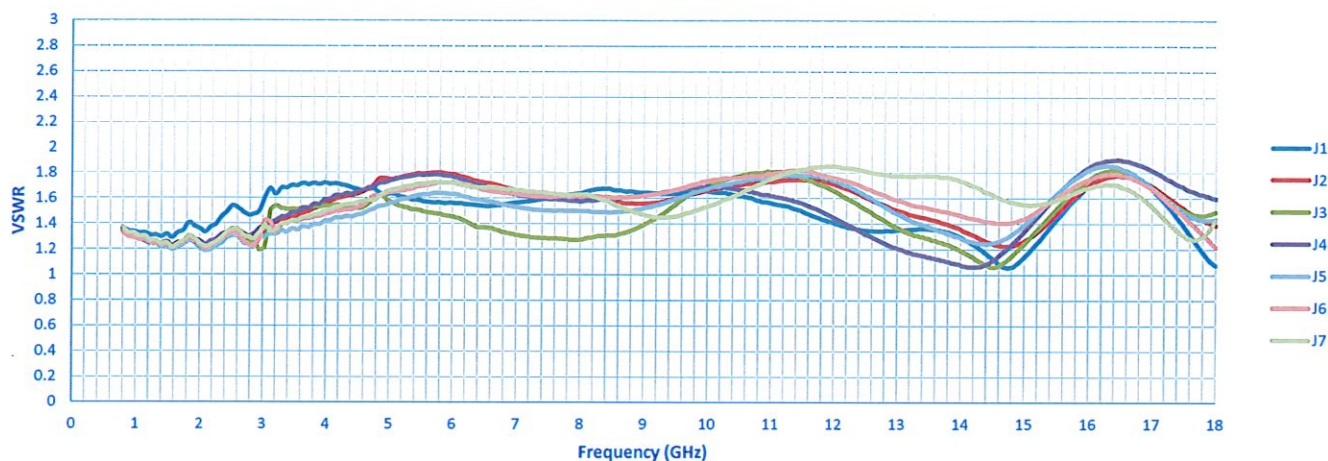




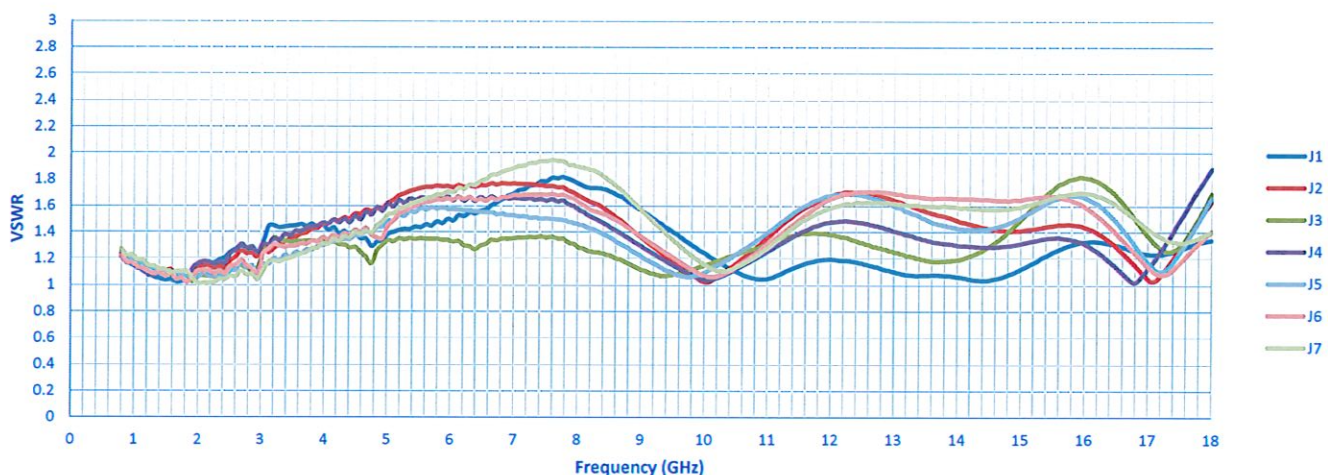
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### VSWR In



### VSWR Out



### VSWR Off

