



**SUMMARY TEST DATA
ON
PDRO-20G-13DBM-EXT**

Customer: _____
 SO No: _____
 Model No: PDRO-20G-13DBM-EXT
 Serial No: PL58160/2608

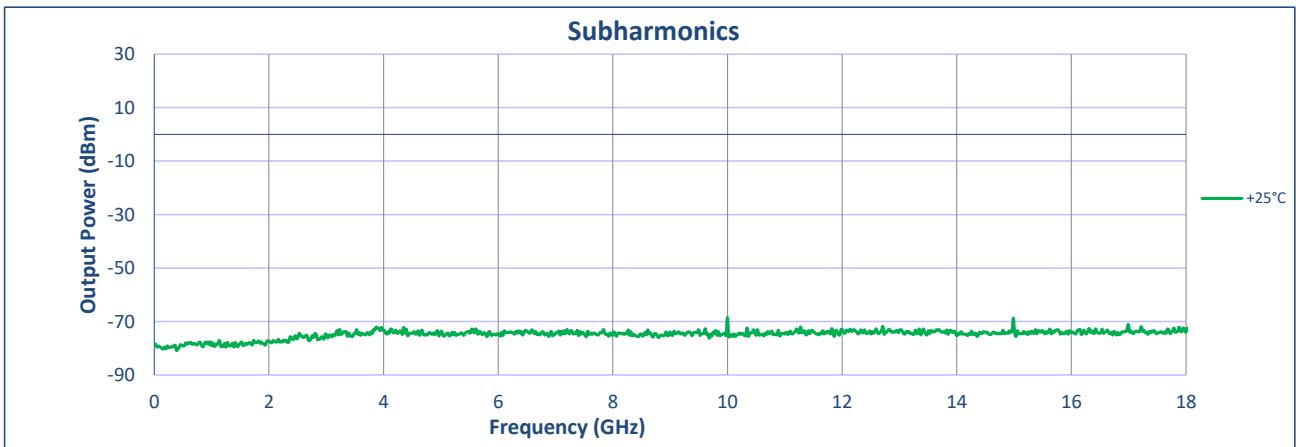
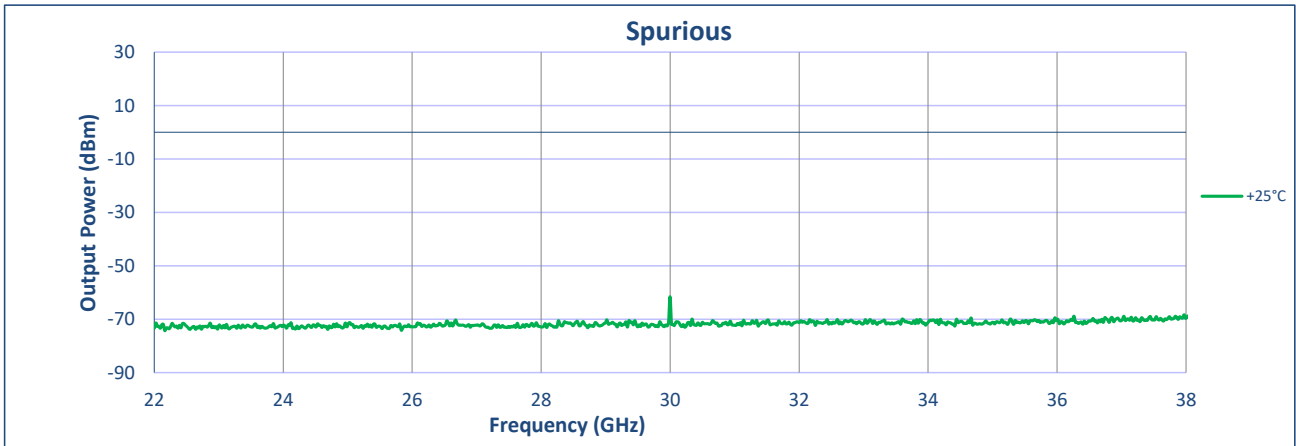
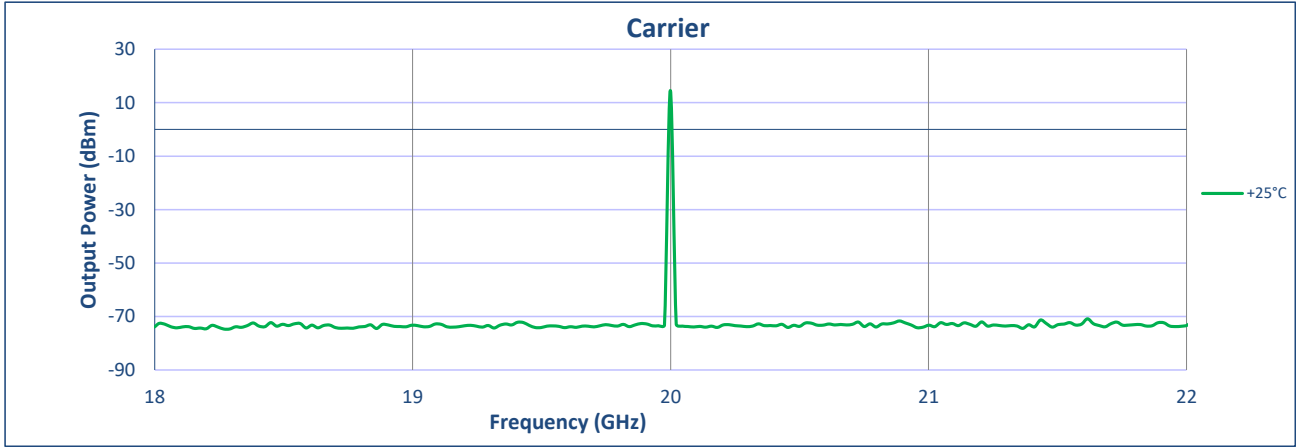
Tested By: V. PRATAP
 Temperature: 25°C
 Date: 2/19/2026
 Drawing No: 27653880 Rev: A1

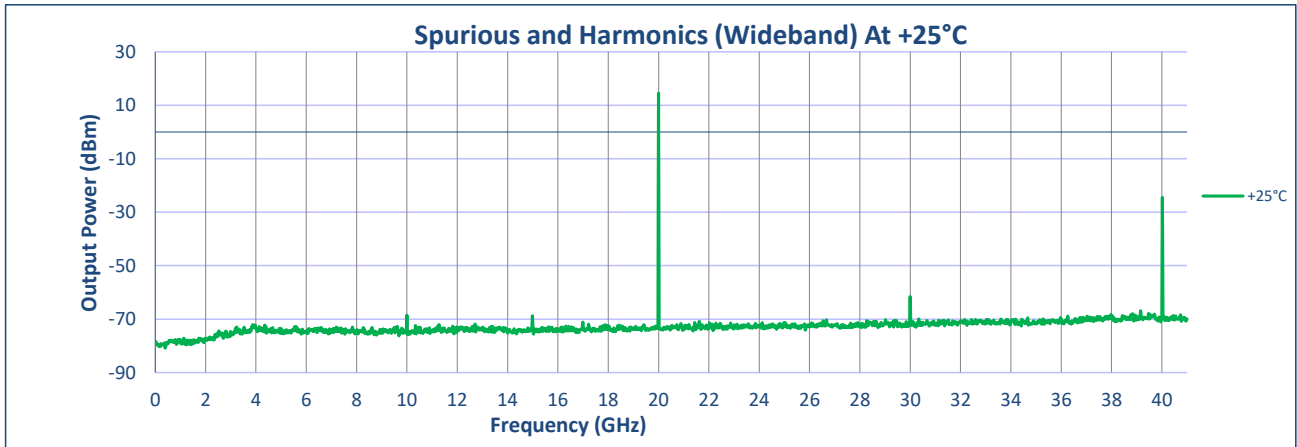
| TEST ITEM | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA/QC |
|-----------|---|--|--|-------|
| 1 | Output Frequency | 20 GHz | 19.998889 GHz | |
| 2 | Output Level | +13 dBm MIN. | 14.55 dBm | |
| 3 | Spurious | -70 dBc MAX. | -76.14 dBc (See Graph) | |
| 4 | Harmonics | -20 dBc MAX. | -39 dBc (See Graph) | |
| 5 | Sub-Harmonics | -60 dBc MAX. | -83.1 dBc (See Graph) | |
| 6 | Phase Noise (REF Input ≥ 8 dBm @ 25°C) | -80 dBc/Hz MAX. @ 100Hz -104 dBc/Hz MAX. @ 1 kHz -113 dBc/Hz MAX. @ 10 kHz -113 dBc/Hz MAX. @ 100 kHz -130 dBc/Hz MAX. @ 1 MHz | -89.82 dBc/Hz @ 100Hz -108.14 dBc/Hz @ 1 kHz -116.17 dBc/Hz @ 10 kHz -118.91 dBc/Hz @ 100 kHz -140.27 dBc/Hz @ 1 MHz | |
| 7 | DC Supply Voltage | +12 to +15 V @ 300 mA MAX. | +12 to +15V @ 230mA | |
| 8 | Lock Detector | TTL High In Lock | TTL High In Lock | |

* FOR ALL OTHER SPECIFICATIONS, SEE TYPICAL CHARACTERISTICS ON THE PMI WEBSITE

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Phase Noise Curve

| R&S FSUP 50 Signal Source Analyzer | | | | LOCKED | | | |
|------------------------------------|--------------------|-------------------------------|-----------|-----------------------|--|--|--|
| Settings | | Residual Noise [T1 w/o spurs] | | Phase Detector +20 dB | | | |
| Signal Frequency: | 20.000003 GHz | Int PHN (30.0 .. 30.0 M) | -59.2 dBc | | | | |
| Signal Level: | -9.25 dBm | Residual PM | 88.478 m° | | | | |
| Cross Corr Mode | Harmonic 1 | Residual FM | 1.793 kHz | | | | |
| Internal Ref Tuned | Internal Phase Det | RMS Jitter | 0.0123 ps | | | | |

