Product: PALO/5GU

Product Order Code:

BM-02065/5GU

5G NR / 5G RedCap
Connector Mounted Antenna

1710MHz to 3800MHz



- Robust ultra wideband. monopole antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via enquiry@bloomice.com

Technical Data

Dimensions		67mm (Overall Height) x 7mm (D) Element Diameter
Weight		12g
Construction Materials		Base - Gold Plated Brass / Cover - UV Stable ABS
Mounting Arrangement		Direct Mounted SMA Male Connector Ground Plane Dependent
Temperature Range		-40 to +85° C
Protection Class		IP55
Cellular 5G		
Frequency Standards		5G NR / 5G RedCap
Frequency Bands	Bands N1, N3, N40: Bands N7, N38, N41: Band N78:	1710 - 2170MHz 2500 - 2670 MHz 3300 - 3800 MHz
Impedance		50 Ohm
Polarisation		Linear
Peak Gain	Bands N1, N3, N40: Bands N7, N38, N41: Band N78:	@ 1710 - 2170MHz : 1.4dBi @ 2500 - 2670 MHz : 0.9dBi @ 3300 - 3800 MHz : 0.9dBi
Radiation Pattern		Omni-Directional
VSWR	Bands N1, N3, N40: Bands N7, N38, N41: Band N78:	@ 1710 - 2170MHz : < 2:1 @ 2500 - 2670 MHz : < 5.2:1 @ 3300 - 3800 MHz : < 4:1
Maximum Input Power @ 30°C		11 Watts
Radiator Type		Monopole
Connector		SMA Male
Test & Measurement Conditions		300mm x 300mm Ground Plane

dBi: Referenced to an isotropic radiator

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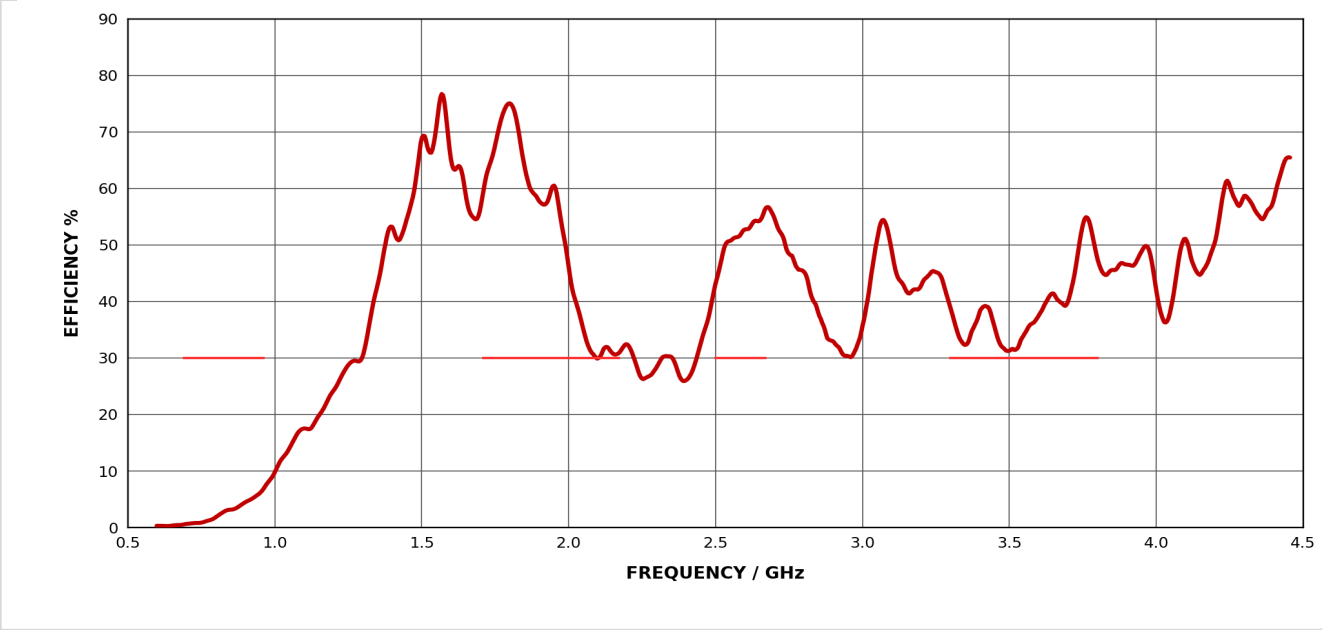
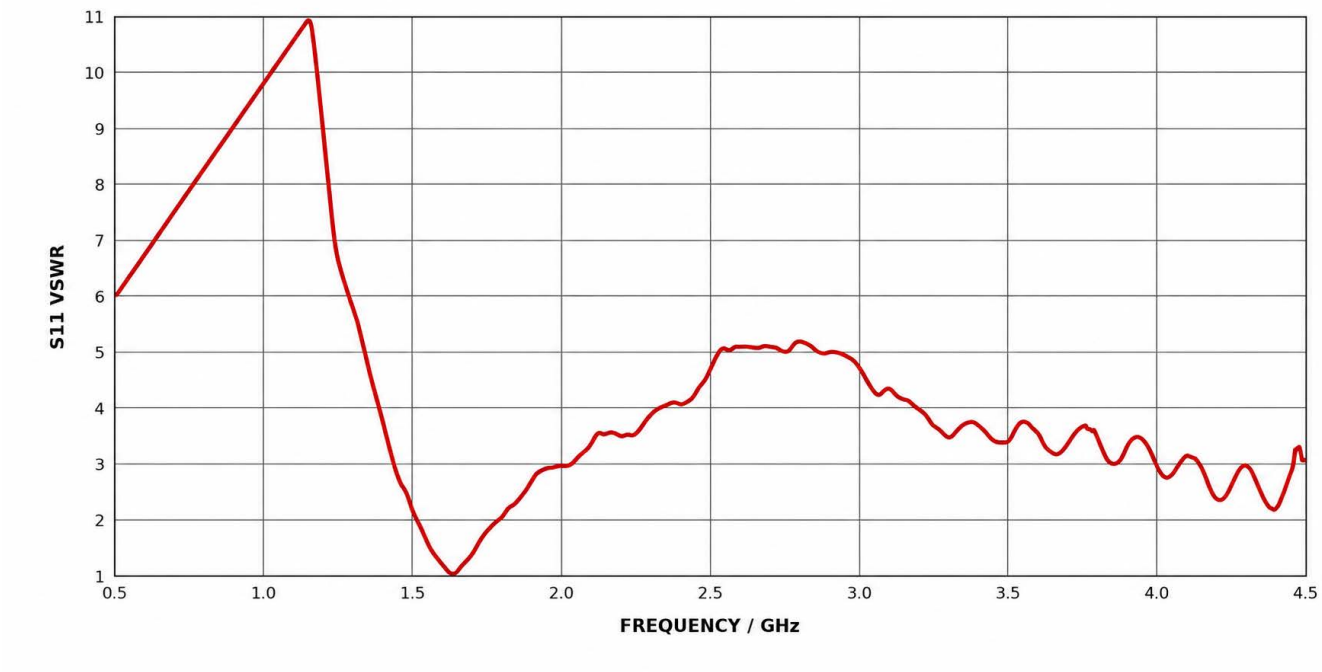
Radiated Efficiency



Typical VSWR



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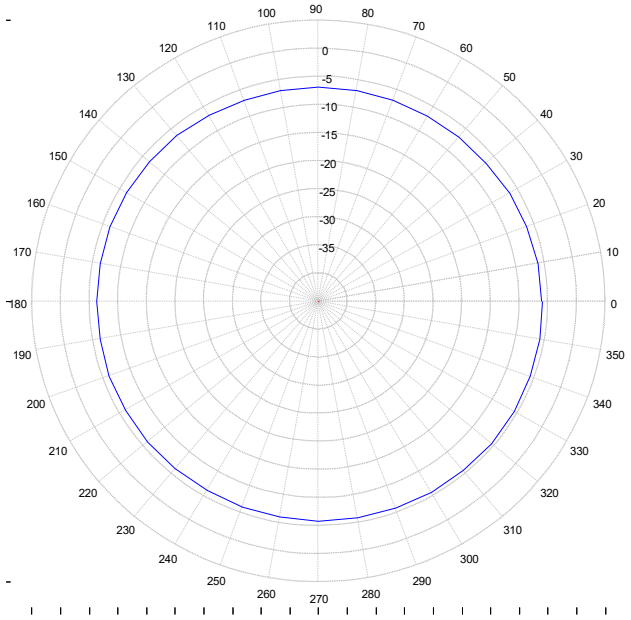
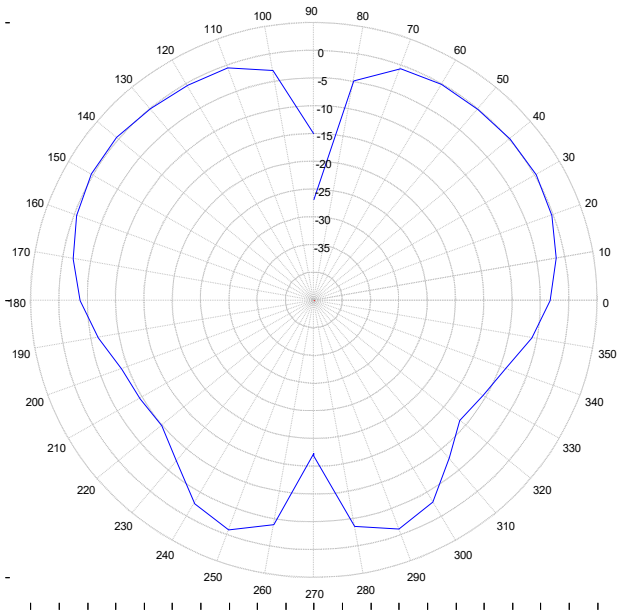
Radiation Patterns



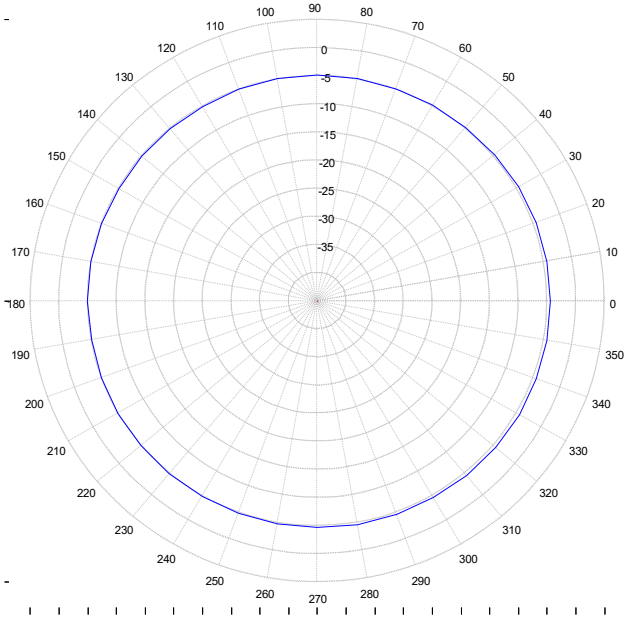
Name: .
Date/Time = 09/09/2026 14:34:37
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 1710 MHz
MAX dB= -5.602 @ 320 Deg.
MIN dB= -7.030 @ 60 Deg.
dB Min/Max Delta = 1.4281 dB



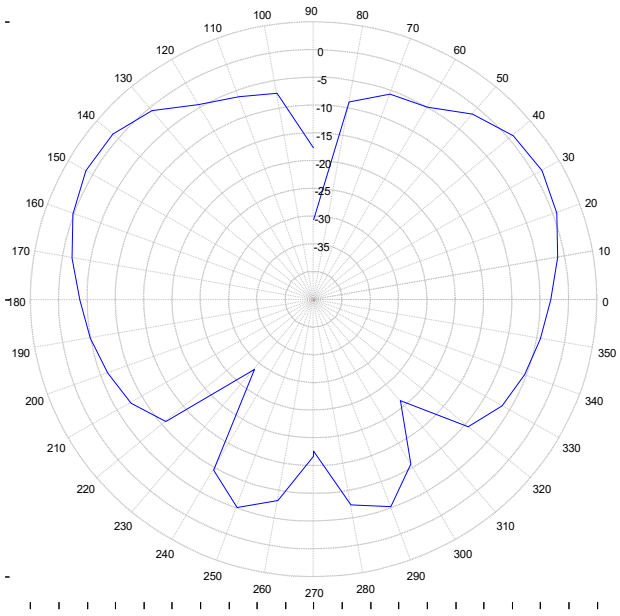
Name: .
Date/Time = 09/09/2026 14:44:58
Plot Scale: 5 dB/Div
Beamwidth: 71.27 Degrees

Frequency: 1710 MHz
MAX dB= 0.5603 @ -220 Deg.
MIN dB= -26.86 @ 90 Deg.
dB Min/Max Delta = 27.430 dB



Name: .
Date/Time = 09/09/2026 14:35:21
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 1900 MHz
MAX dB= -4.379 @ 350 Deg.
MIN dB= -5.104 @ 130 Deg.
dB Min/Max Delta = 0.7257 dB



Name: .
Date/Time = 09/09/2026 14:45:22
Plot Scale: 5 dB/Div
Beamwidth: 41.55 Degrees

Frequency: 1900 MHz
MAX dB= 1.4853 @ -210 Deg.
MIN dB= -30.69 @ 90 Deg.
dB Min/Max Delta = 32.178 dB

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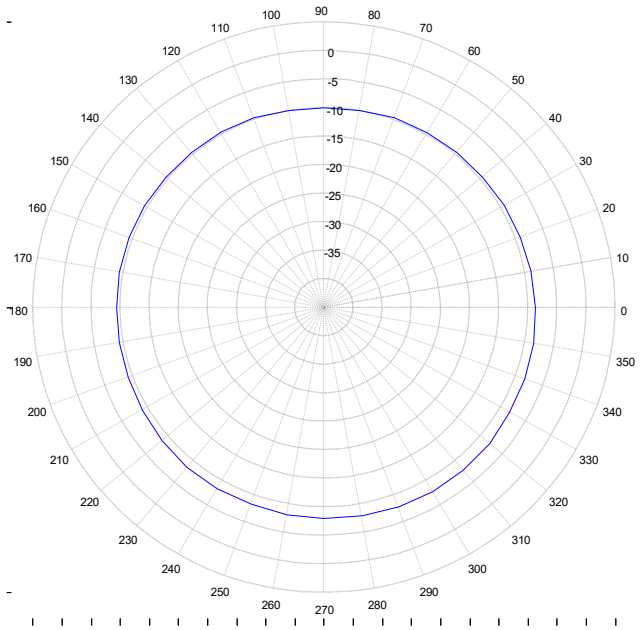
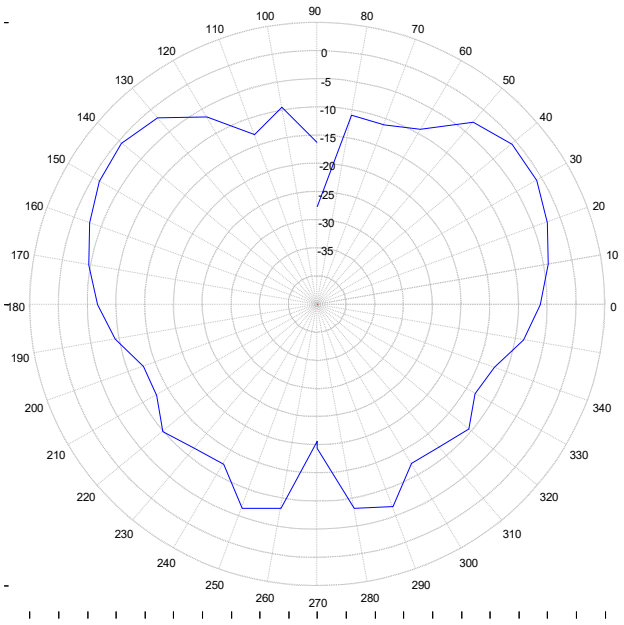
Radiation Patterns



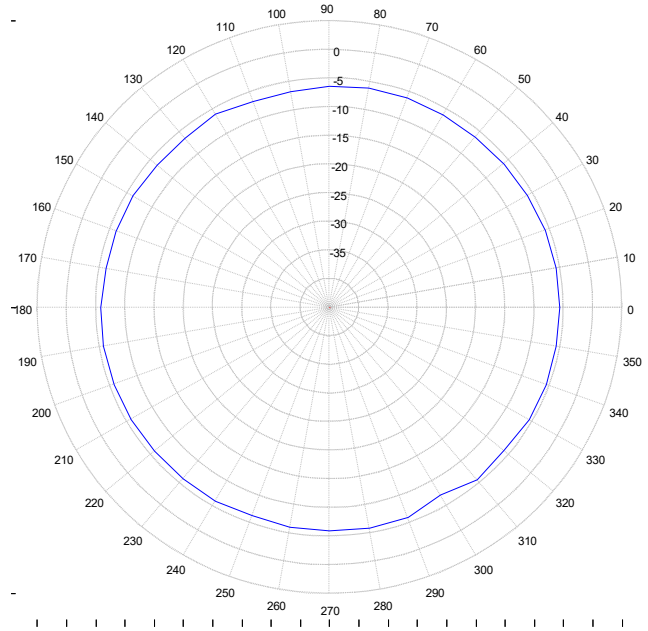
Name: .
Date/Time = 09/09/2026 14:35:54
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 2170 MHz
MAX dB= -7.798 @ 300 Deg.
MIN dB= -10.04 @ 80 Deg.
dB Min/Max Delta = 2.2422 dB



Name: .
Date/Time = 09/09/2026 14:45:48
Plot Scale: 5 dB/Div
Beamwidth: 37.50 Degrees

Frequency: 2170 MHz
MAX dB= -0.529 @ -220 Deg.
MIN dB= -27.76 @ 90 Deg.
dB Min/Max Delta = 27.232 dB



Name: .
Date/Time = 09/09/2026 14:36:40
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 2600 MHz
MAX dB= -5.617 @ 360 Deg.
MIN dB= -7.168 @ 300 Deg.
dB Min/Max Delta = 1.5509 dB



Name: .
Date/Time = 09/09/2026 14:46:19
Plot Scale: 5 dB/Div
Beamwidth: 47.02 Degrees

Frequency: 2600 MHz
MAX dB= 1.3530 @ 30 Deg.
MIN dB= -24.19 @ 90 Deg.
dB Min/Max Delta = 25.549 dB

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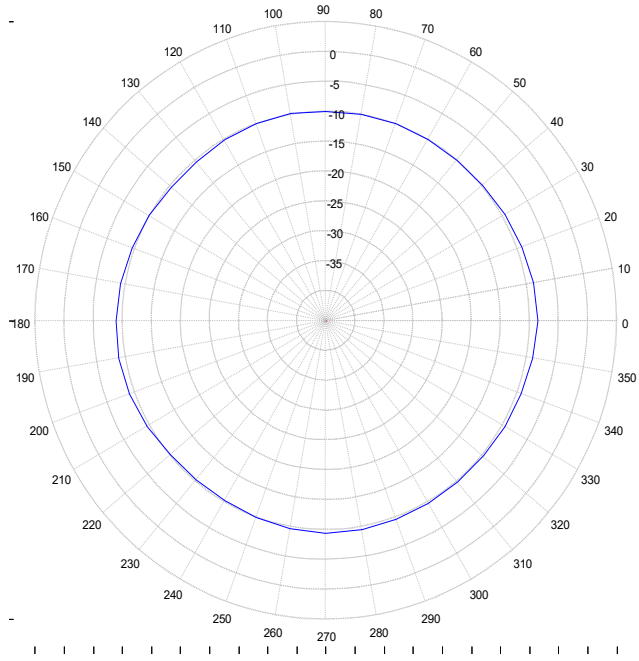
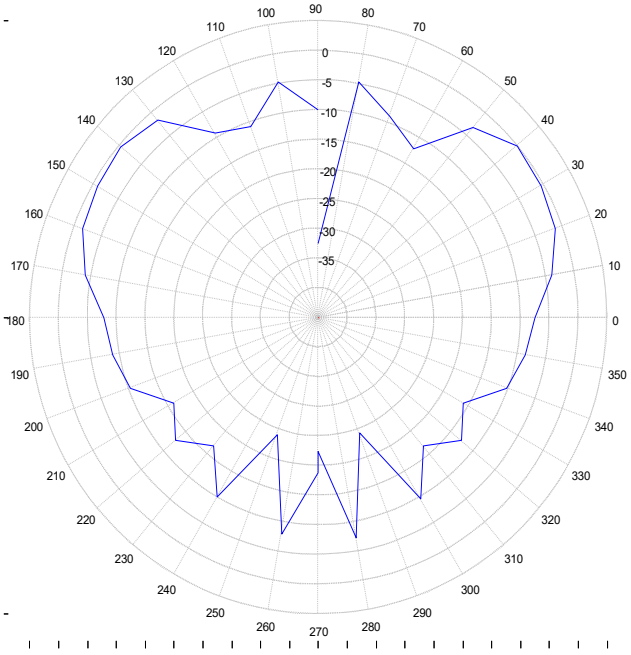
Radiation Patterns



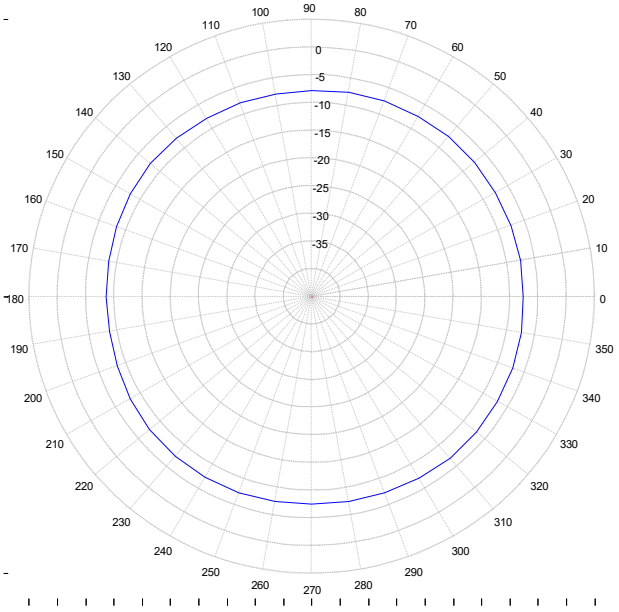
Name: .
Date/Time = 09/09/2026 14:39:01
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 3550 MHz
MAX dB= -8.586 @ 0 Deg.
MIN dB= -10.29 @ 130 Deg.
dB Min/Max Delta = 1.7121 dB



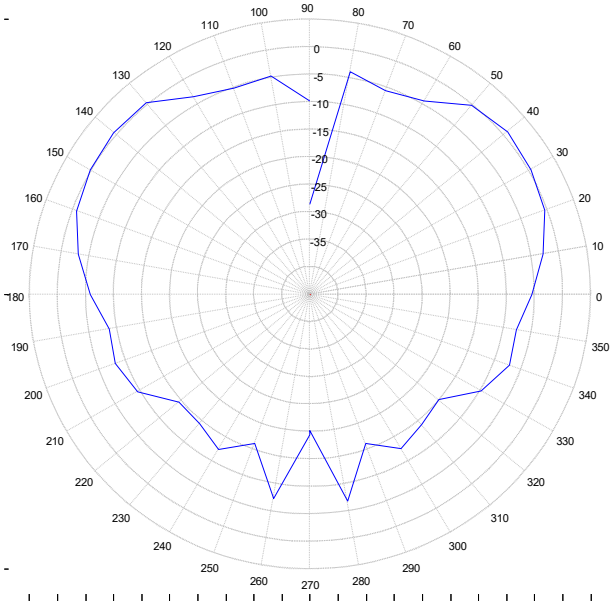
Name: .
Date/Time = 09/09/2026 14:47:48
Plot Scale: 5 dB/Div
Beamwidth: 26.26 Degrees

Frequency: 3550 MHz
MAX dB= -0.073 @ 40 Deg.
MIN dB= -32.50 @ 90 Deg.
dB Min/Max Delta = 32.433 dB



Name: .
Date/Time = 09/09/2026 14:39:36
Plot Scale: 5 dB/Div
Beamwidth: 360 Degrees

Frequency: 3800 MHz
MAX dB= -7.018 @ 320 Deg.
MIN dB= -8.660 @ 180 Deg.
dB Min/Max Delta = 1.6425 dB



Name: .
Date/Time = 09/09/2026 14:48:13
Plot Scale: 5 dB/Div
Beamwidth: 41.20 Degrees

Frequency: 3800 MHz
MAX dB= 0.8755 @ 40 Deg.
MIN dB= -28.70 @ 90 Deg.
dB Min/Max Delta = 29.577 dB

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CAD Data

