

Features:

- 698-960/1710-3800 MHz
- Gain 2dBi
- IP67
- Cable and connector variants available
- Magnetic mount
- RoHS Compliant

Applications:

- Transit
- Outdoor vehicular use
- Transportation / Logistics
- High speed data over LTE



All dimensions are in mm / inches

Issue: 1802

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Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



This document covers all product variants of the following product family

Antennas	Cable Type	Cable Length	Connector	Weight(g)
LPT698/3800MM	RG58 Black	3000mm[118.11inch]	SMA Male	296.6
LPT698/38MM200SMA	LMR200 Black		SMA Male	300
LPT698/3800MMMMCX	RG58 Black		MMCX	300.5

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Description: LTE 698-3800MHz Outdoor
Omni Antenna

Series: Low Profile Transit

PART NUMBER:LPT698/3800XXXX

ELECTRICAL SPECIFICATIONS

Antenna Type	Monopole
Frequency	698-960/1710-3800MHz
Nominal Impedance	50 Ω
VSWR	< 2:1
Radiation Pattern	Omni
Gain	2 dBi
Efficiency	50% @698-960MHz ; 30% @1710-3800MHz
Polarization	Vertical
Power Withstanding	45W

MECHANICAL SPECIFICATIONS

Overall Length	94.66mm
Antenna Color / Material	Black
Connector type	As required
Cable type	As required
Cable length	3000mm
Fix system	Magnetic fixing

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40/+85 ° C
Storage Temperature	-40/+85 ° C
Ingress Protection	IP67
Wind-loading	160 km/h
RoHS Compliant	Yes

OTHER SPECIFICATIONS

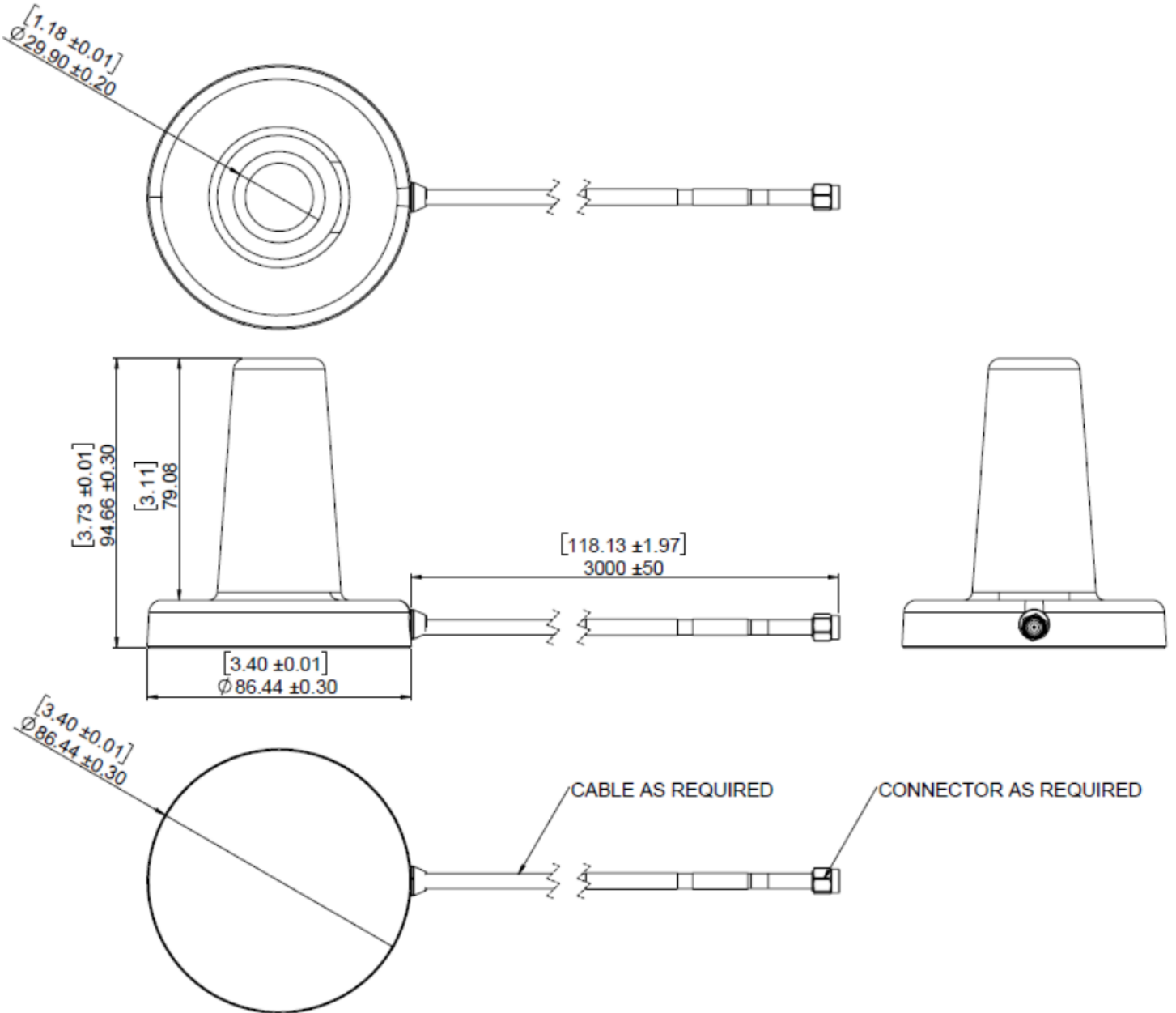
Issue: 1802

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MECHANICAL DRAWING



DIMENSION UNIT:MM/INCH

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Series: Low Profile Transit

Description: LTE 698-3800MHz Outdoor
Omni Antenna

PART NUMBER:LPT698/3800XXXX

TEST SETUP

*VSWR and radiation performance are test on $\Phi 20$ " ground plane
with 118" RG58 cable

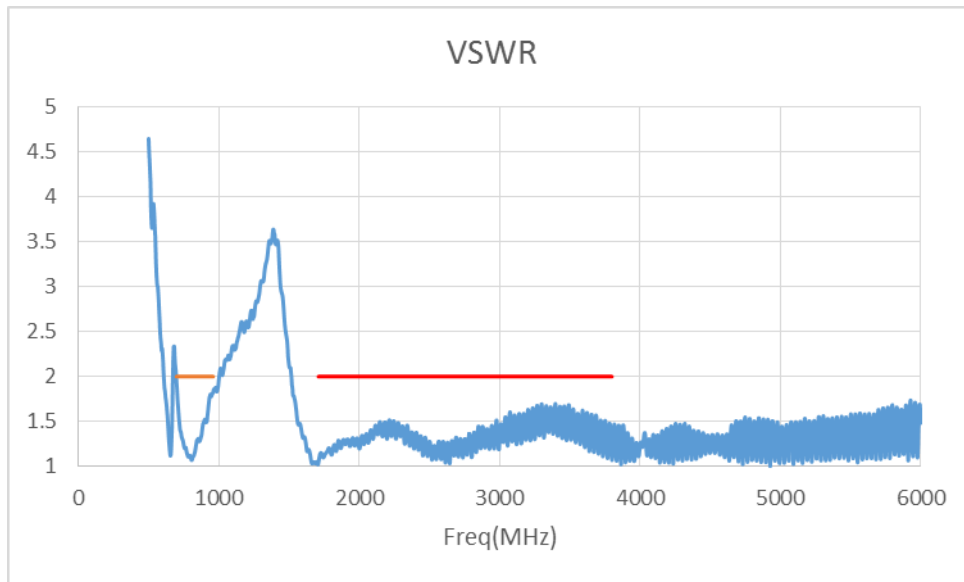
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Series: Low Profile Transit

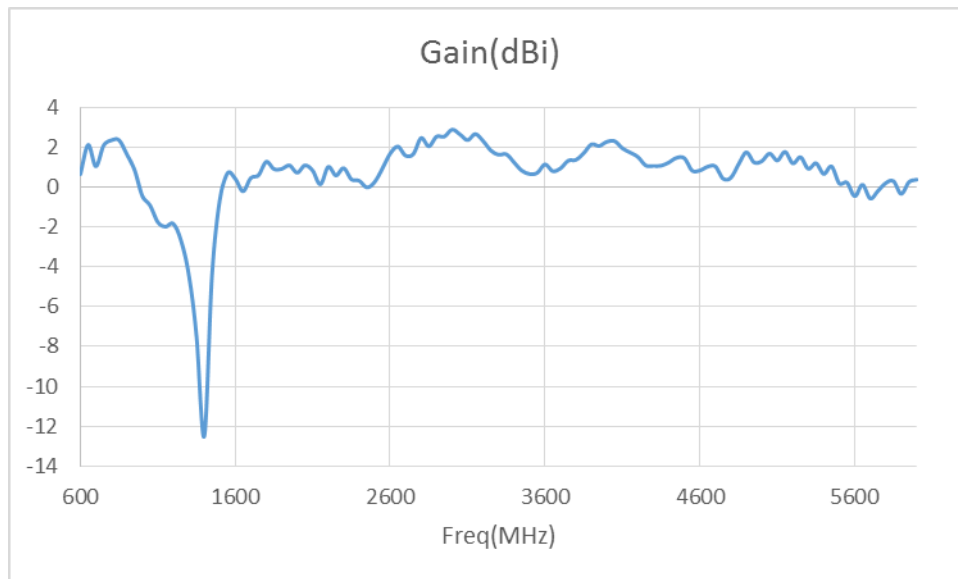
PART NUMBER: LPT698/3800XXXX

CHARTS

VSWR



Peak Gain vs Frequency
LPT698/3800XXX Measured with 118" on Ø20" GP



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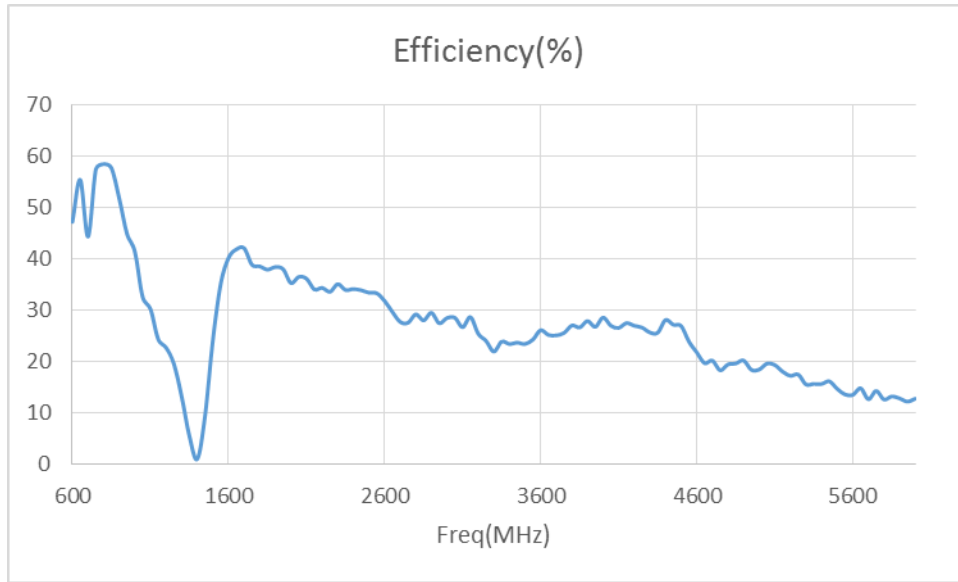
Description: LTE 698-3800MHz Outdoor
Omni Antenna

Series: Low Profile Transit

PART NUMBER:LPT698/3800XXXX

CHARTS

Efficiency vs Frequency
LPT698/3800XXX Measured with 118" on $\Phi 20$ " GP



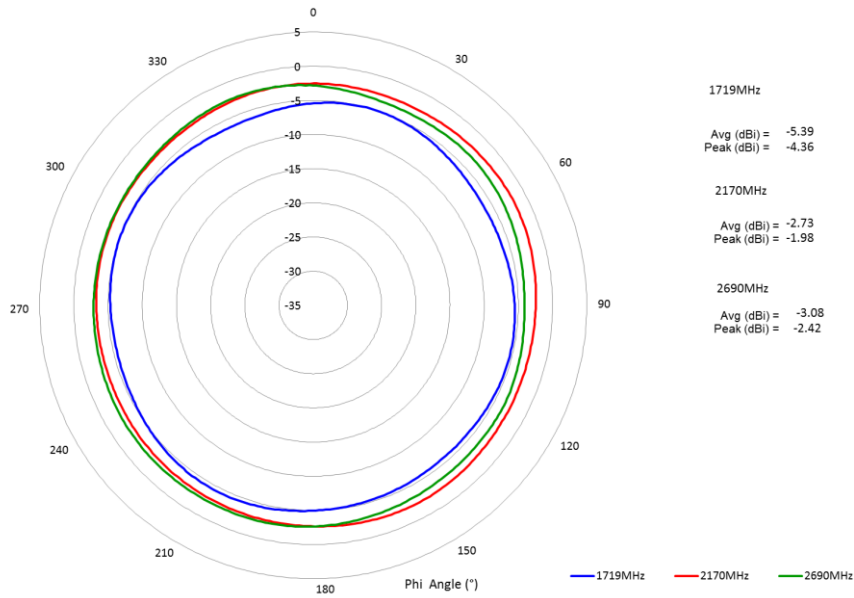
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Series: Low Profile Transit

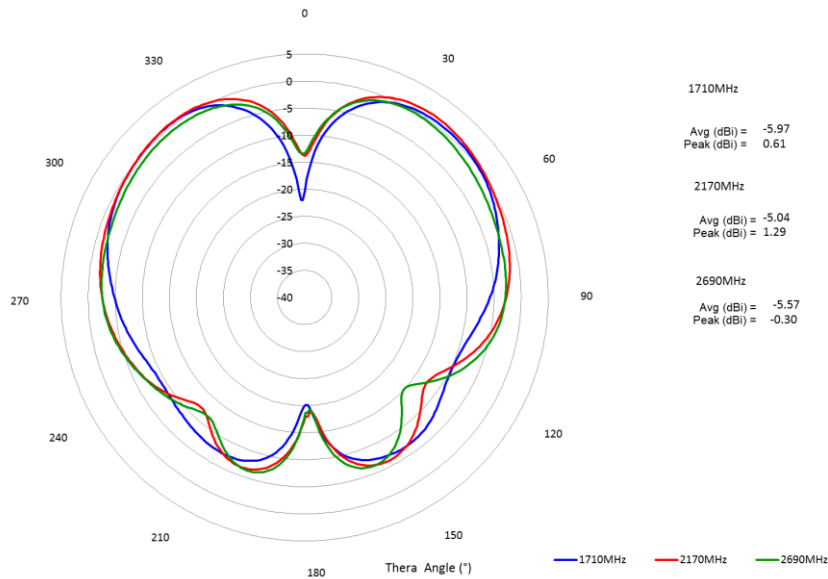
PART NUMBER: LPT698/3800XXXX

CHARTS

X-Y plane radiation pattern at LTE low band*



Z-X plane radiation pattern at LTE low band*



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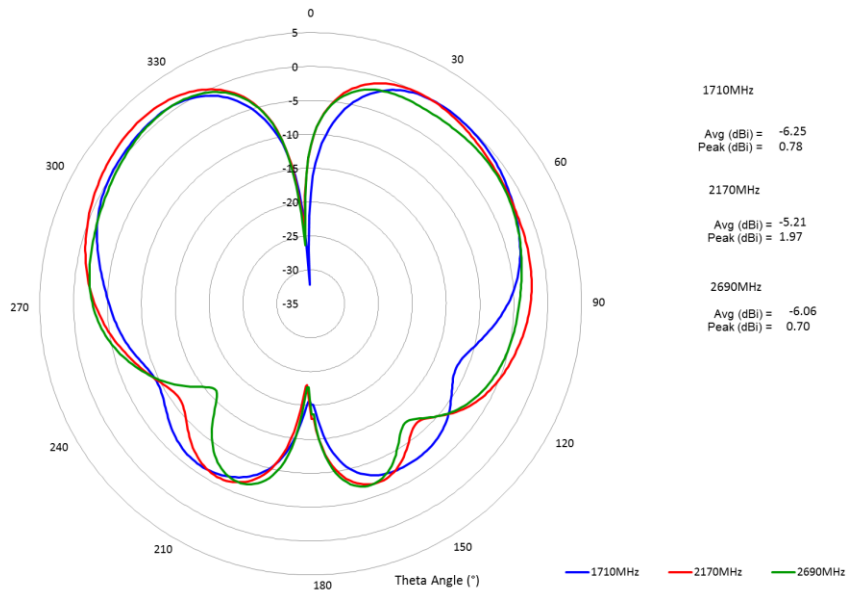
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Series: Low Profile Transit

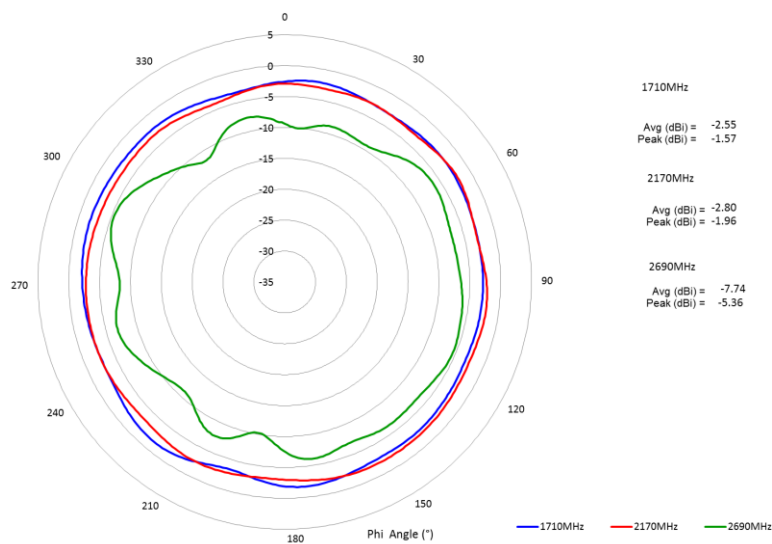
PART NUMBER: LPT698/3800XXXX

CHARTS

Y-Z plane radiation pattern at LTE low band*



X-Y plane radiation pattern at LTE high band*



Issue: 1802

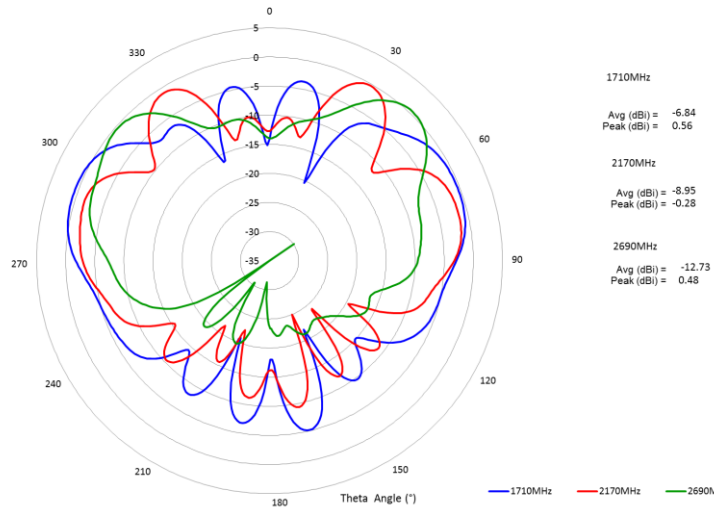
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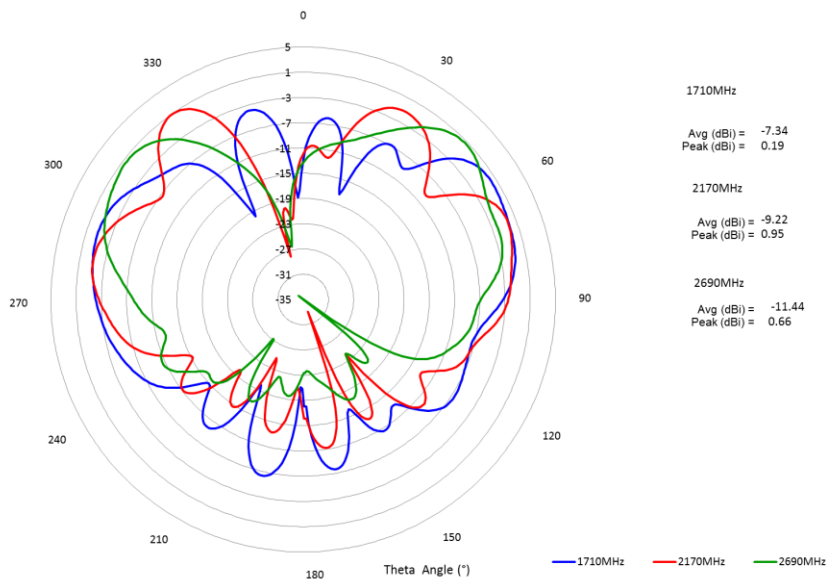
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CHARTS

X-Z plane radiation pattern at LTE high band*



Y-Z plane radiation pattern at LTE high band*



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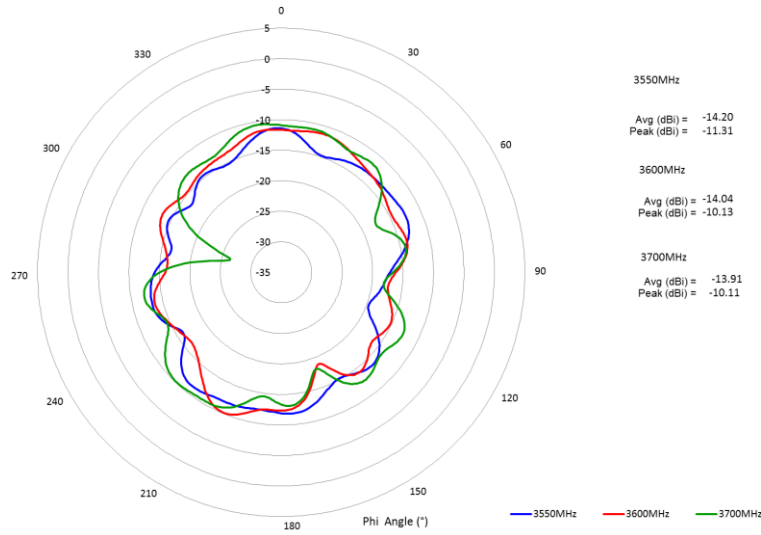
Description: LTE 698-3800MHz Outdoor Omni Antenna

Series: Low Profile Transit

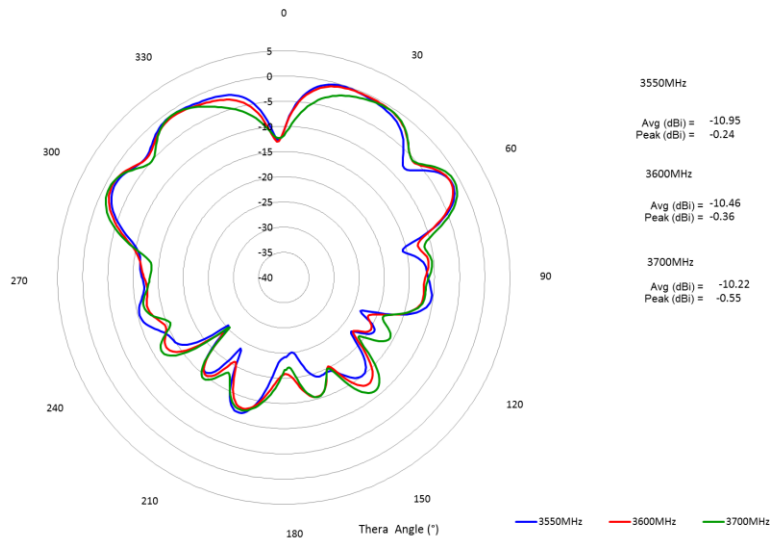
PART NUMBER:LPT698/3800XXXX

CHARTS

X-Y plane radiation pattern at CBRS band*



X-Z plane radiation pattern at CBRS band*



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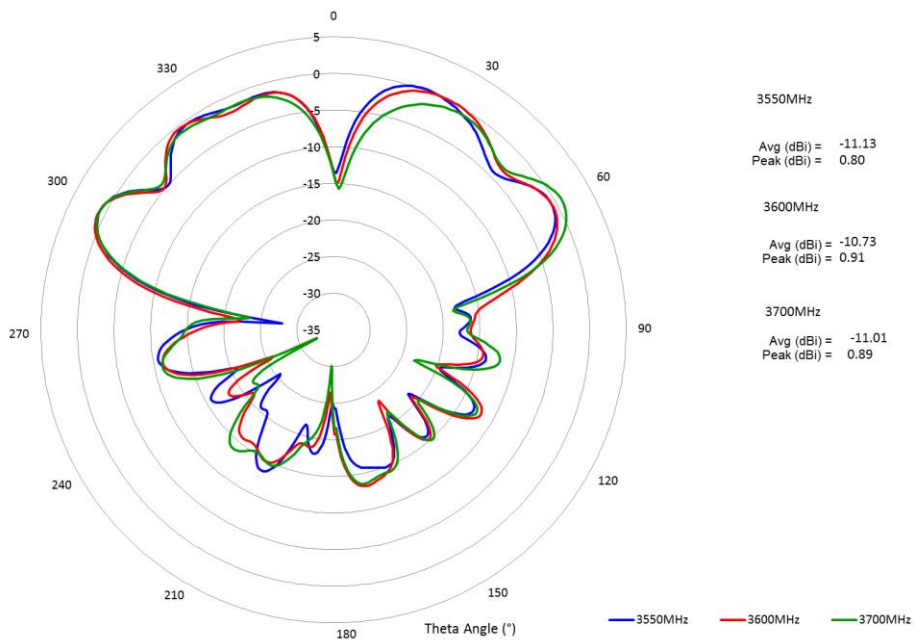
Description: LTE 698-3800MHz Outdoor
Omni Antenna

Series: Low Profile Transit

PART NUMBER: LPT698/3800XXXX

CHARTS

Y-Z plane radiation pattern at CBRS band*



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Description: LTE 698-3800MHz Outdoor
Omni Antenna

Series: Low Profile Transit

PART NUMBER: LPT698/3800XXXX

PACKAGING

1PCS/ Foam bag
12PCS/ Carton box



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