



STANDARD 20DB SHORT GPS ANTENNA 3.3V

SERIES ANTENNA PAGE 1/2 ISSUE 13-12-19C PART NUMBER R380300024 **Scale 3:1 Scale 3:2 TEXTURE 27 TO 30** ON ALL EXTERNAL SURFACES 0.591 R15 NO MARKING OPPOSIDE SIDE 0.138 R3.5 0.419 Ø 10.6 0.445 [1.32] 33.5 Ø 11.3 **FLAT GASKET** 0.035 0.9 0.096 2.45 Reference plane 0.116 ±0.012 1/4-36 UNS 2.94 ±0.31 0.512 0.033 ±0.008  $\emptyset$ 13 0.84 ±0.20

All dimensions are in mm. Tolerances according ISO 2768 m-H



## **Technical Data Sheet**

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## **ELECTRICAL CHARACTERISTICS**

Gain: 19 dBic min

Polarization: RHCP

Axial Ratio 3 dB typ

Radiation Pattern: Hemi-spherical

 P1 dB compression :
 -12 dBm

 Noise Figure (LNA alone) :
 <1.7 dB</td>

 Supply Voltage :
 3.3 V typ.

 3.1 V min
 3.5 V max

 Current consumption :
 8 mA typ

12 mA max

Connector type: Male SMA

## **MECHANICAL CHARACTERISTICS**

Plastic radome : POLYCARBONATE Color : POLYCARBONATE

Texture : Charmille 27 to 30

Weight: **8.71** g

Overall length: 33.5 mm

Max Diameter Ø13 mm

RoHS Compliant: Yes

## **ENVIRONMENTAL CHARACTERISTICS**

\$-32/+55\$ ° C Operating temperature : IAW MIL-STD-810G

meth 501.5 & 502.5, proc II

**-55/+85** ° C

Storage temperature : IAW MIL-STD-810G

meth 501.5 & 502.5, proc I

3 cycles -40/+70°C
Temperature Shocks IAW MIL-STD-810G

meth 503.5 , proc I

Altitude: **40,000** ft

IAW MIL-STD-810G

meth 500.5, proc I

Induced Hot Humid

IAW MIL-STD-810G

meth 507.5, proc II

Immersion (mated to radio) 1m, for 2h

IAW MIL-STD-810G meth 512.5, proc I

Salt Fog: 96h

(4x24h alterning wet & dry)
IAW MIL-STD-810G

L-STD-810G meth 509.5

Solar Radiation: 10 cycles, 20/4h sun/dark

IAW MIL-STD-810G meth 505.5, proc II

Transit Shocks: 26 drops from 1.2m high

26 drops from 1.2m high IAW MIL-STD-810G meth 516.6, proc IV

Fluid Contamination Table 504.1-II

MIL-STD-810G Meth 504.1, proc II

Humidity: