

Ceramic Chip Antenna, 1575-1602MHz, SMD, 18x18x4mm

Part Numbers: L000953-01
L000953-80

FEATURES & BENEFITS

- L1 GPS bands for GNSS
- Passive Patch Antenna; SMD
- The following data is based on 50 x 50 x 1mm ground size
- No matching circuits required for EVB

RF SPECIFICATIONS

Frequency Range (MHz)	1575.42	1602
Bandwidth (MHz)	±1.023	± 5
VSWR (center frequency)	< 2.0 :1	< 2.0 :1
Peak Gain at Zenith	Typ. 0.5 dBi	Typ. 0.6 dBi
Average Gain	-1.5 dB	-1.7 dB
Efficiency (%)	70 %	65 %
Feed Point Impedance	50 ohms	
Polarization	Right Hand Polarization (RHP)	

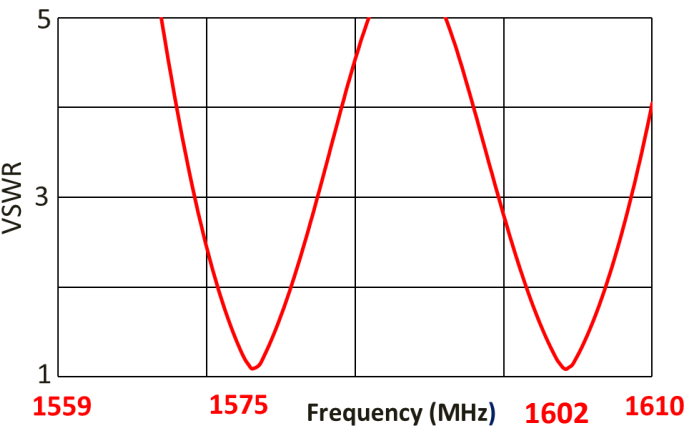
MECHANICAL SPECIFICATIONS

Size (L x W x H)	18.0 mm x 18.0 mm x 4.0 mm (L/W/H ± 0.15)
Weight	< 10 g
Mounting	SMD (Surface Mount Device)
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +105°C
Storage Temperature	-40 to +105°C
Dielectric Material	Ceramic
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

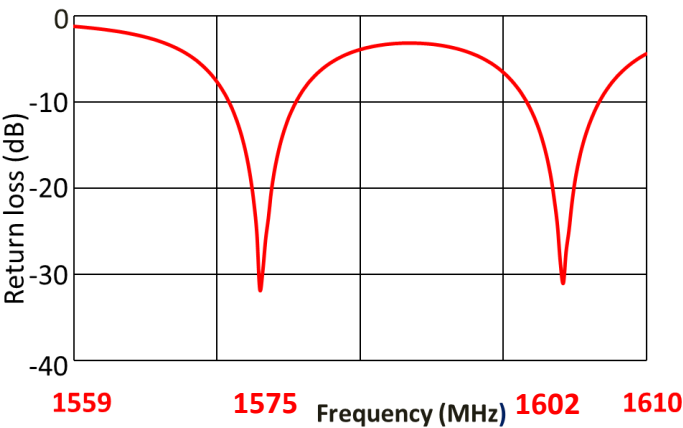
RF DATA

(shown as L000953-01 : Ground size : 50 x 50 x 1.0)

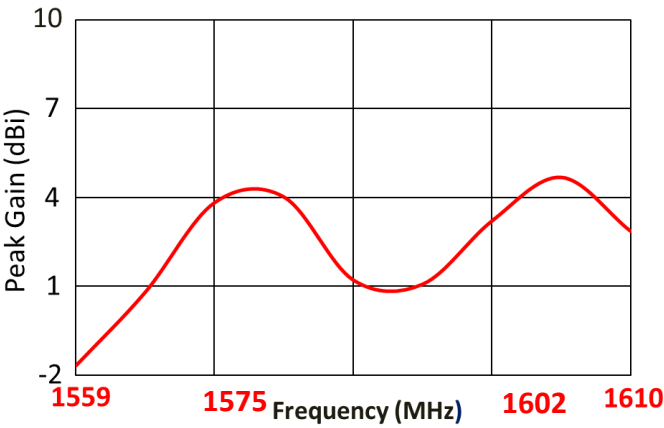
VSWR



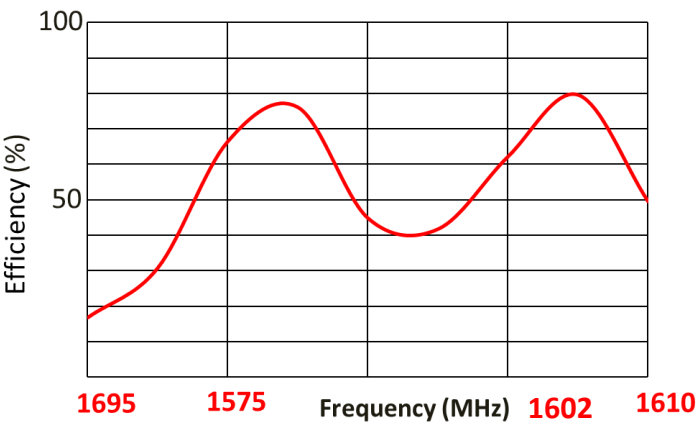
Return Loss



Peak Gain



Efficiency

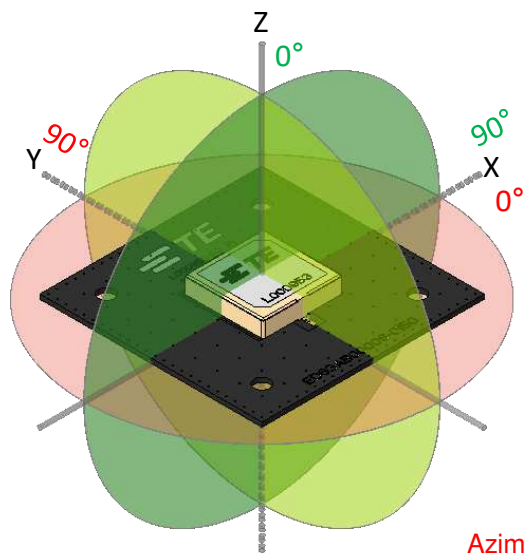


Data measured in free space and on reference ground plane of 50 x 50 x 1.0 mm ground plane condition, application data might vary.

RADIATION PATTERN

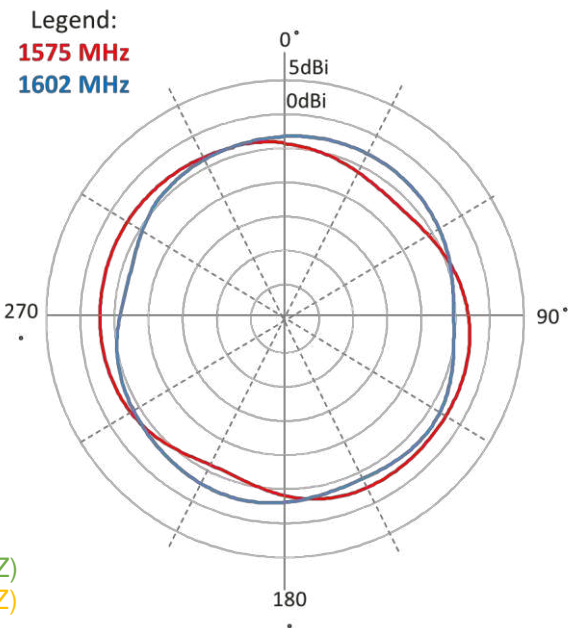
(shown as L000953-01 : Ground size : 50 x 50 x 1.0 mm.)

Test setup

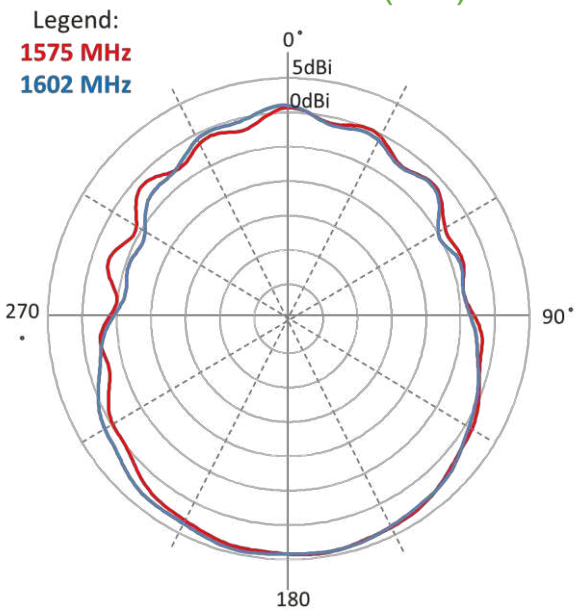


Azimuth Plane (XY)
Elevation 1 Plane (XZ)
Elevation 2 Plane (YZ)

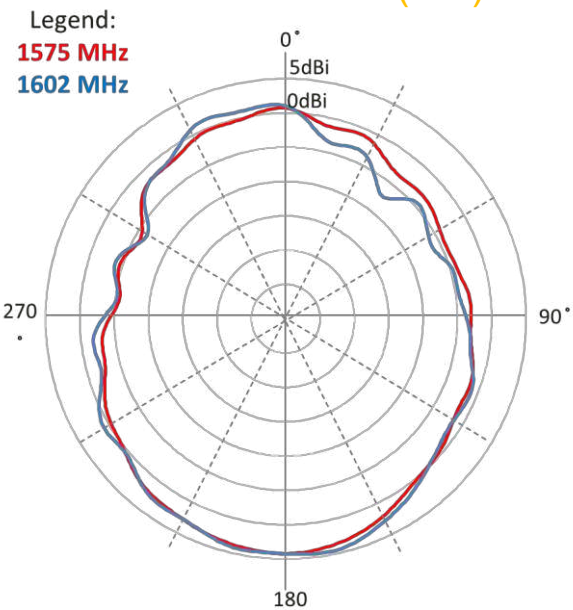
Azimuth (XY)



Elevation 1 (XZ)

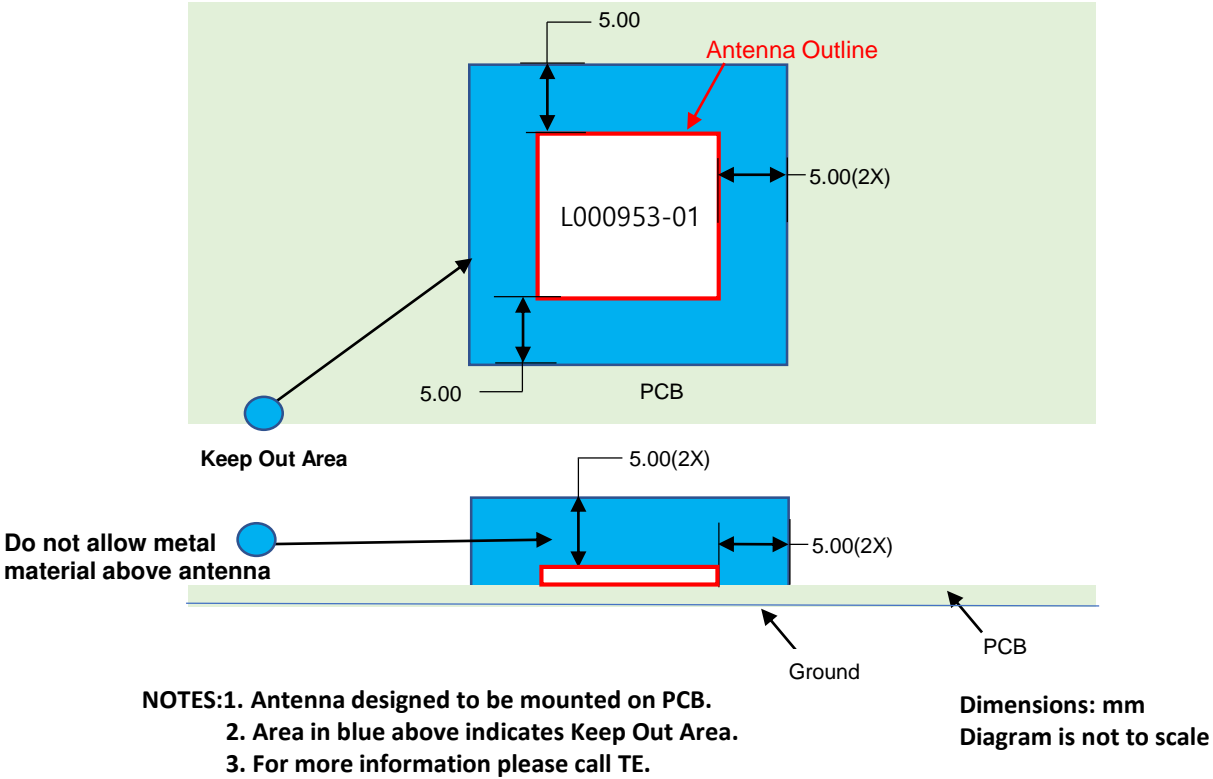


Elevation 2 (YZ)

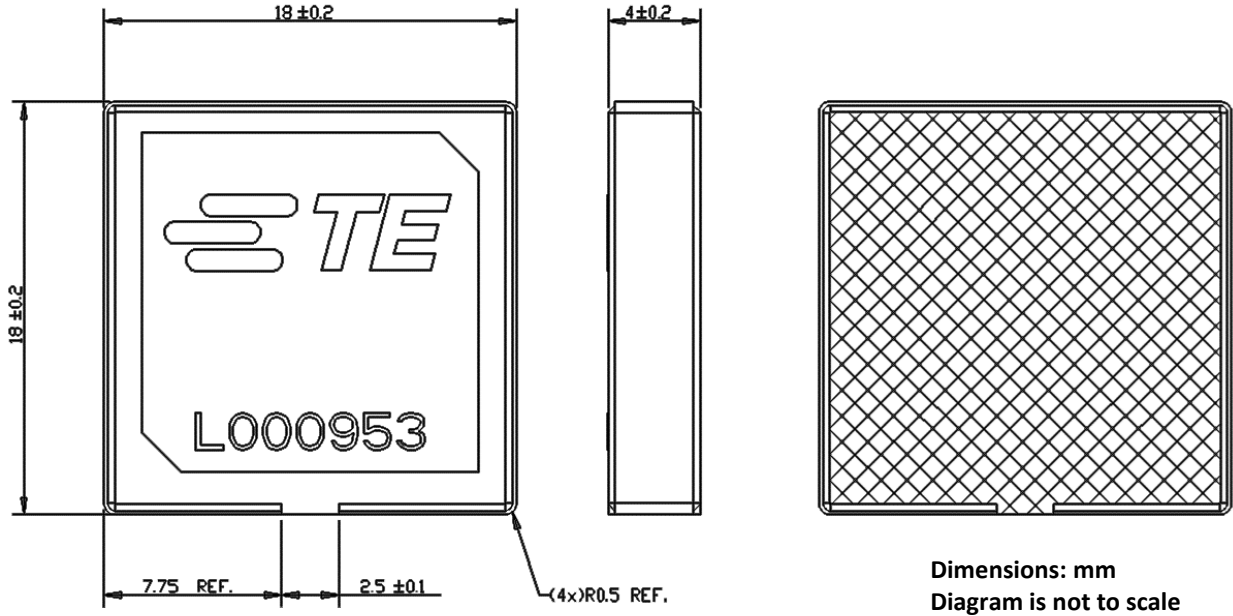


Data measured in free space and on reference ground plane of 50 x 50 x 1.0 mm ground plane condition, application data might vary.

KEEP OUT AREA



DIMENSIONS

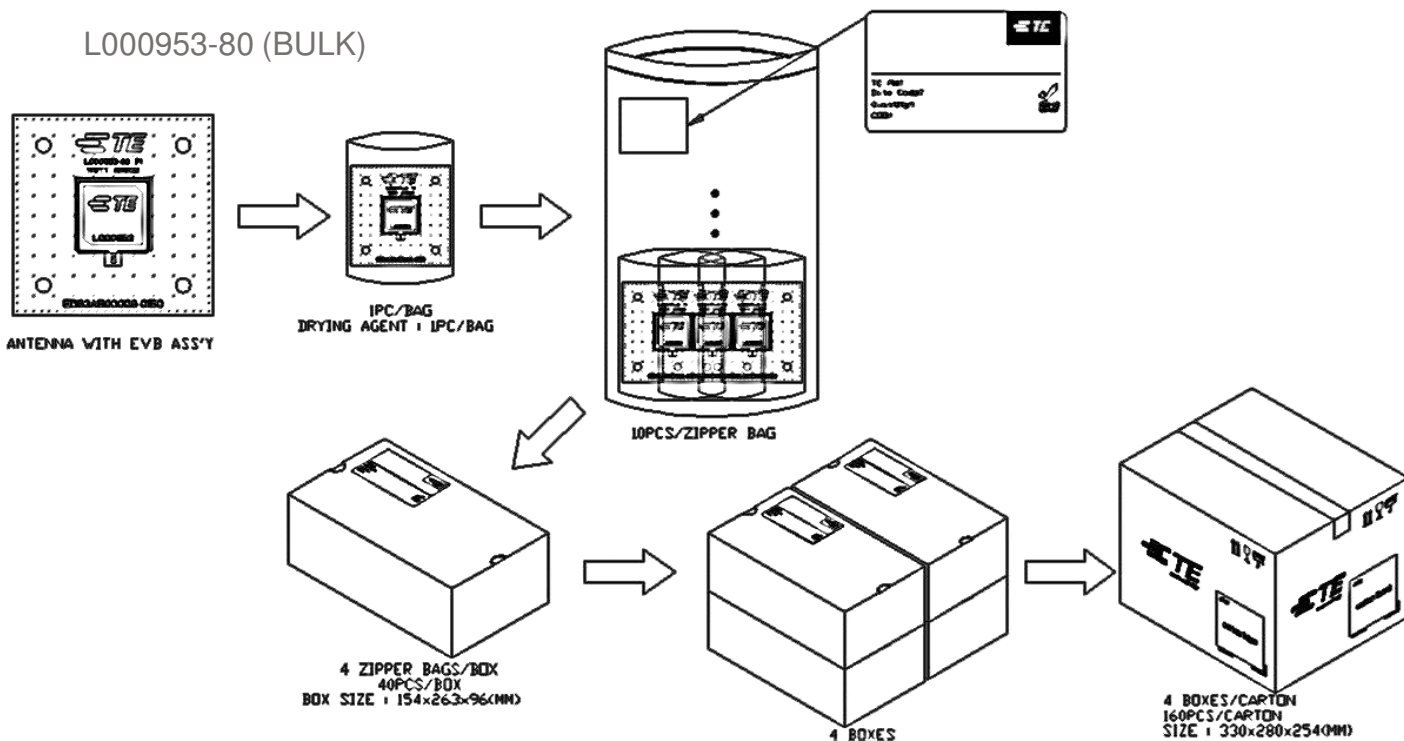


Ceramic Chip antenna, 1575-1602MHz, 18x18x4mm

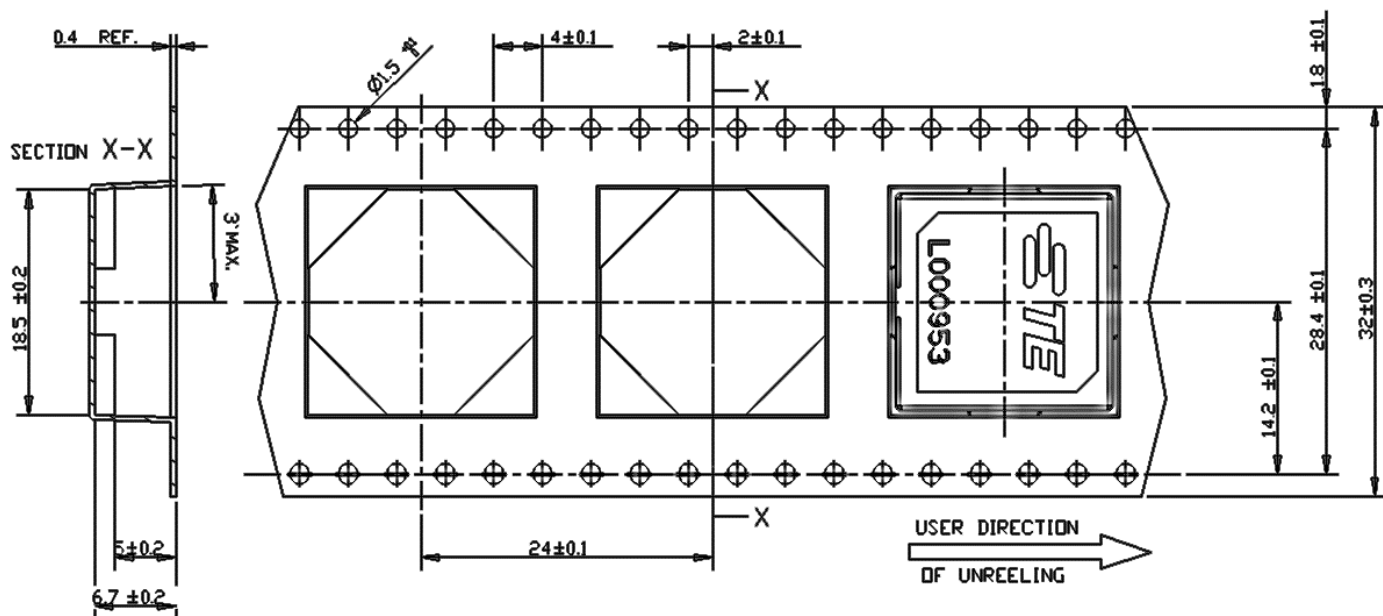
Standard Antenna Solutions

PACKAGING

L000953-80 (BULK)



L000953-01 (REEL)



Ceramic Chip antenna, 1575-1602MHz, 18x18x4mm

Standard Antenna Solutions

TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

For phone numbers in other countries, go to te.com/support-center

te.com

TE Connectivity, TE Connectivity (logo) are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.

05/2021