

# **HE SERIES** COMPACT HELICAL **ANTENNAS**

ANT-315-HE\*\*, ANT-418-HE\*\* ANT-433-HE\*\*, ANT-916-HE\*\*

> \*\* = SM (SURFACE-MOUNT) TH (THROUGH-HOLE)

> > .25"

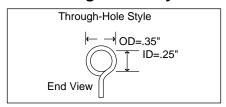
#### DESCRIPTION

In low-cost RF applications a whip antenna generally provides the best overall performance. In many cases, however, the use of a whip is not practical for cost or cosmetic reasons. In instances where a designer is looking for a blend of easy concealment, low cost and good performance, a helical antenna is usually the optimum choice. The HE series from Linx delivers exceptional performance and ease of use, while maintaining a cost factor appropriate for high-volume applications. Linx helical antennas are precisely wound and matched to provide the lowest possible SWR at the operational frequency. In addition, the antenna diameter and inter-coil spacing are optimized to provide a wider than typical bandwidth.

#### **FEATURES**

- Compact design for easy concealment
- High-grade phosphoric bronze construction
- Precision wound for consistent performance
- Surface-mount or through-hole styles
- Low physical impedance
- Very low cost in volume

#### **Through-Hole Style** Rugged construction



**Surface-Mount Style** 

→ OD=.35"

ID=.25"

Wire Diameter 0.050"

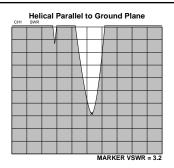
Surface Style

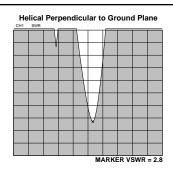
End Views

## ORDERING INFORMATION

PART #	DESCRIPTION	PART #	DESCRIPTION
ANT-315-HESM	SURFACE-MOUNT 315 MHZ	ANT-315-HETH	THROUGH-HOLE 315 MHz
ANT-418-HESM	SURFACE-MOUNT 418 MHZ	ANT-418-HETH	THROUGH-HOLE 418 MHz
ANT-433-HESM	SURFACE-MOUNT 433 MHZ	ANT-433-HETH	THROUGH-HOLE 433 MHz
ANT-916-HESM	SURFACE-MOUNT 916 MHZ	ANT-916-HETH	THROUGH-HOLE 916 MHz

#### PERFORMANCE CHARACTERISTICS

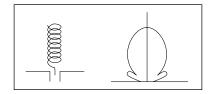




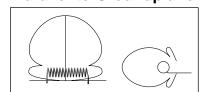
#### RADIATION PATTERN

HE Series antenna patterns have not been fully characterized as of this time. The patterns below illustrate typical patterns for antennas of this

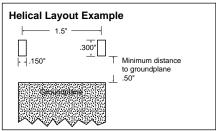
#### Perpendicular to Groundplane



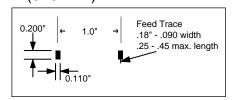
#### Parallel to Groundplane



### **Suggested Board Layout**



#### (916MHz)



### For Applications Subject to Vibration or Shock

