



L3HARRIS™
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H SERIES ANTENNA COUPLERS

L3Harris' H Series Antenna Couplers are specifically designed to couple multiple receiver systems to a single antenna with a minimum of insertion loss. The couplers are designed to electronically split the received signals equally between the systems. In this manner, a single antenna may feed redundant systems or serve a dual-function role (e.g., glide slope and VHF Omnidirectional Radio Range Localizer [VOR/LOC]).

The ruggedly built couplers are housed in aluminum cases with all circuit elements fully encapsulated. General specifications applicable to all couplers are provided in this sheet, while Table 1 indicates the recommended function of the particular type.

PARAMETER	SPECIFICATION
Electrical	
Frequency range	329 – 335.3 MHz 108 – 118 MHz 74.75 – 75.25 MHz (H21-1 only)
VSWR	
VOR/LOC	<1.5:1 dB
Glide slope	<1.5:1 dB
Marker beacon	<2.0:1 dB (H21-1 only)
Impedance	50 Ohms
Isolation	
VOR/LOC to VOR/LOC	<20 dB
VOR/LOC to VOR/LOC	<40 dB
Glide slope from VOR/LOC	<14 dB
Marker beacon to marker beacon	<14 dB
Insertion loss	
Glide slope port H22-1 and H23-1	0.5 dB max
VOR/LOC port, H22-1	0.5 dB max
VOR/LOC ports, H21-1, H23-1 and glide slope ports H24-1	3.5 dB max including power split
Marker beacon ports, H21-1	3.6 dB max including power split
Power handling	Receive only
Mechanical	
Weight	4 oz max
Environmental	
FAA	TSO C34c, C35d, C36d, C40c



KEY FEATURES

- > Instrument Landing System redundant couplers
- > Rugged, fully encapsulated designs
- > Minimum insertion loss
- > Standardized mounting

For further details and specifications, contact the factory at antenna.info@L3Harris.com

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