

VIDEO ISOLATION TRANSFORMERS - Humbuckers

Humbuckers are common mode chokes that offer high impedance to common mode currents to ground, while being ideally transparent to line to line signals.

Unlike North Hills “Humstoppers”, they have a limitation on the 60 Hz common mode signal that can be handled. Also the degree of isolation at 60 Hz is of the order of 40-50 dB compared to 120 dB for Humstoppers.

*North Hills Application Note 153 - “Ground Isolation in Video Transmission” provides further information on the subject of video isolation transformers.



North Hills Isolation Video Transformers provide quick, cost-effective solutions.

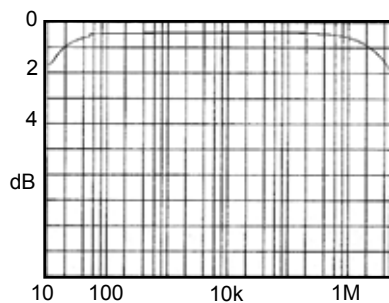
Features:

- Flat response down to dc
- Ultra-wide bandwidth

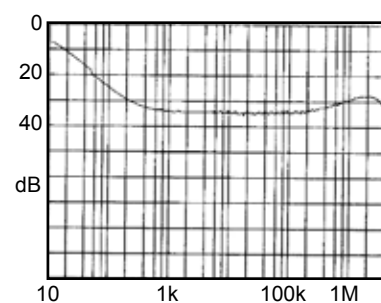
Benefits:

- Unbalanced to unbalanced transformers for isolation of coaxial systems
- Excellent differential gain and phase

Typical Characteristics (Model 1119PA):



Insertion Loss
10 Hz - 5 MHz



Return Loss
10 Hz - 5 MHz

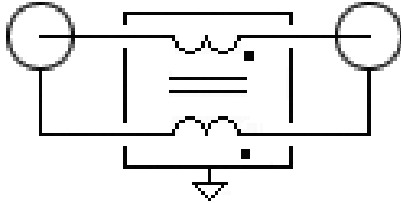


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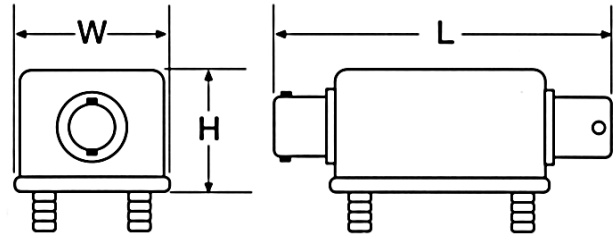
Simplified Schematics:

Type PA, CC



Case Styles:

Type PA, CC



Type	W (in.)	L (in.)	H (in.)	Mtg. Ctrs.		Stud Size	Recm. Mtg. Hole
				A	B		
PA	3.0	3.9	2.0	1.90	2.30	6-32 x .37	.173
CC	1.7	3.5	1.55	1.00	1.50	6-32 x .37	.173

Humbucking Transformers

• Flat response down to dc

• Ultra-wide bandwidths

Model #	Impedance (Ω)	Bandwidth (MHz)	Isolation at 60 Hz (dB)	Max Com. Mode Signal at 60 Hz (V_{pp})
0019PA	50:50	dc - 20	50	3.6
0020CC	50:50	dc - 25	40	2.0
1119PA	75:75	dc - 20	50	3.6
1120CC	75:75	dc - 25	40	2.0

ORDERING INFORMATION:

With the exception of the power dividers/combiners and hybrid transformers North Hills standard product wideband transformers are a four digit number with a two letter suffix. The four digit number defines the electrical designs while the two letter suffix defines the case size.