

# VIDEO ISOLATION TRANSFORMERS

This series of transformers eliminates spurious voltages caused by the flow of undesired currents between the LO sides of the source and a remote load. They are particularly useful in video and data transmission systems where ground currents cause interference and picture quality problems. The transformers are supplied with input and output connectors insulated from ground and as well as each other.

If your video, data or RF transmission is plagued by hum bars or other video problems, do what Broadcast, Telecommunications and CCTV Engineers have been doing successfully for over **fifty years**: Install North Hills' Isolation Transformers!

North Hills' "**Humstoppers**" provide quick, cost-effective solutions to interference due to differences in ground potential or induced common-mode noise.

North Hills Application Note 153 - "Ground Isolation in Video Transmission" and Application Note 157 "Ground Isolation when the Video Feed has a DC Component" provide further information on the subject of video isolation transformers.



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

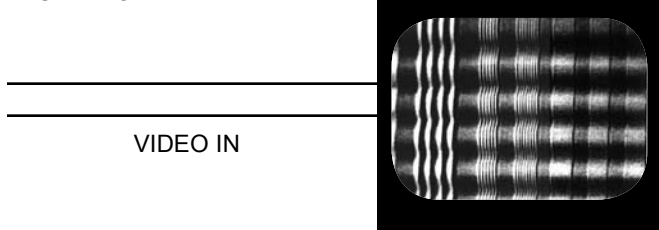
## Features:

- Insulated BNC connectors
- Flat frequency and linear phase response
- 120 dB isolation at power frequencies
- 500 Vrms withstanding voltage, winding to winding and each winding to case

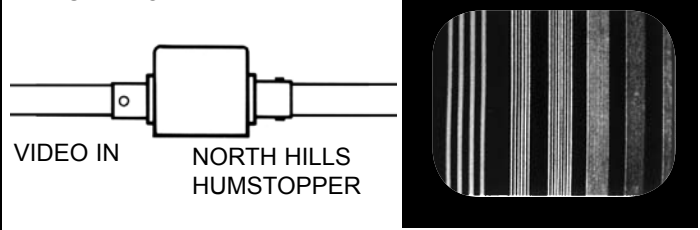
## Benefits:

- Eliminates picture quality problems easily and efficiently
- Fully sealed enclosure
- Easy to install

HUM PROBLEM



HUM PROBLEM ELIMINATED





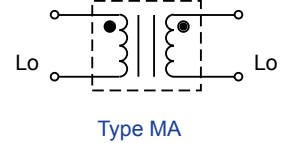
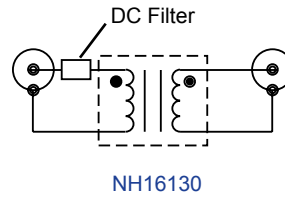
# VIDEO ISOLATION TRANSFORMERS

North Hills "Humstoppers" provide quick, cost-effective solutions to interference due to differences in ground potential or induced common-mode noise.

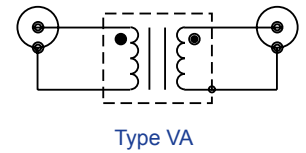
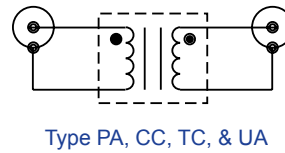
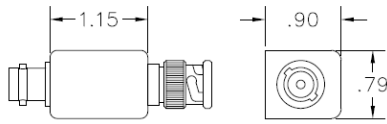
## Case Styles:

Type	W (in.)	L (in.)	H (in.)	Mtg. Ctrs.		Stud Size	Recm. Mtg. Hole
				A	B		
VA	0.79	1.15	0.90	NA	NA	NA	NA
UA	3.50	5.00	2.61	2.50	4.00	6-32 x .37	0.218
MA	Ø2.10		1.20	See Config.		NA	NA
PA	3.00	3.90	2.00	1.90	2.30	6-32 x .37	0.173
CC	1.70	3.50	1.55	1.00	1.50	6-32 x .37	0.173
TC	3.25	4.60	2.90	2.50	2.50	6-32 x .37	0.173

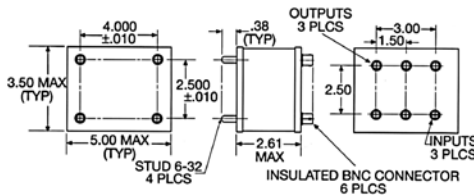
## Simplified Schematics:



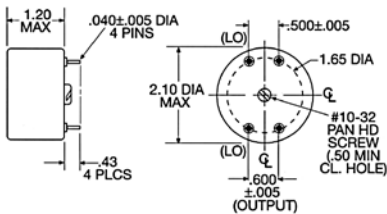
## Type VA:



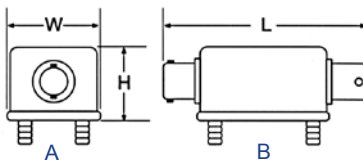
## Type UA:



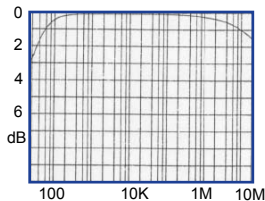
## Type MA:



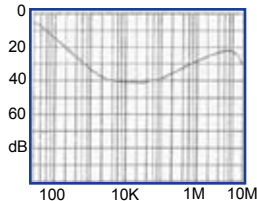
## Type PA, CC, TC:



## Typical Characteristics - Model 1116A:



Transmission Loss  
25 Hz - 20 MHz



Return Loss  
25 Hz - 25 MHz

## ORDERING INFORMATION:

To order, specify model number followed by case style, for example: 1117CC.

Imped. (Ω)	Model	Bandwidth	Case Styles
50:50	0017	10 Hz - 5 MHz	CC, MA
	0016	20 Hz - 25 MHz	PA
	0005	1 kHz - 25 MHz	CC
	0018	20 kHz - 300 MHz	VA
	0013	10 Hz - 15 MHz	CC
50:75	1117	10 Hz - 5 MHz	CC, MA
	"Triple" 1117	10 Hz - 5 MHz	UA
	NH16130 <sup>1</sup>	10 Hz - 5 MHz	CC
	1116	20 Hz - 25 MHz	PA
	"Triple" 1116	20 Hz - 25 MHz	UA
	1103	1 kHz - 25 MHz	CC, MA
	1122	20 kHz - 300 MHz	VA
50:75	0115	15 Hz - 5 MHz	PA
	0112	1 kHz - 25 MHz	CC, MA
75:93	1204	15 Hz - 4 MHz	PA

<sup>1</sup>NH16130 for when your video feed has a dc component.