

# 110Ω-75Ω Digital Audio Impedance Transformers

Canare Impedance Transformers allow 75Ω coaxial transmission of all 2 channel AES/EBU Digital Audio signals. Low cost and easy to use, our I/O adapters are designed to passively convert all standard AES/EBU digital audio signals from 110Ω/XLR3 Output (@ 4.5 Volts) to a 75Ω BNC coaxial cable and then back again to a 110Ω/XLR3 Input (200mV min). Also provides excellent rejection against hum and noise.

### Applications

- Post production suites
- DAT routing
- recording studios
- digital audio tie lines

### Features

SMPTE 276M & AES3 Transmission Standards  
Coaxial Routing of 2 Channel AES/EBU Digital Audio  
Permits longer cable runs vs 110Ω Twisted Pair  
Signal Distribution: Canare Video Patchbays, Routers & VDA's

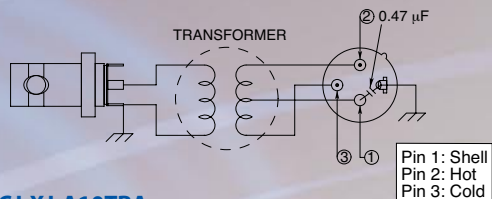


### General Specifications

Bandwidth: 0.1 ~ 6MHz  
Maximum Voltage: 5V p-p  
VSWR: Less than 1.1  
Insertion Loss: Less than 0.3 dB

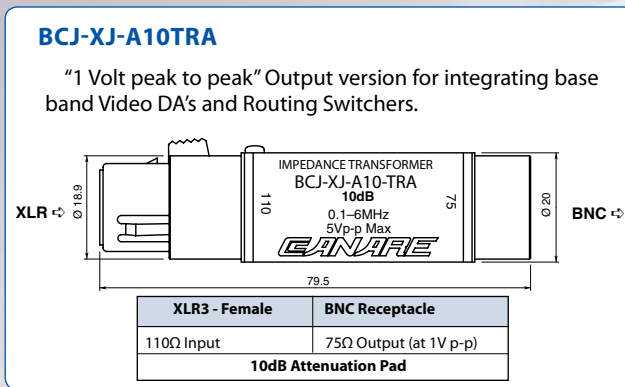
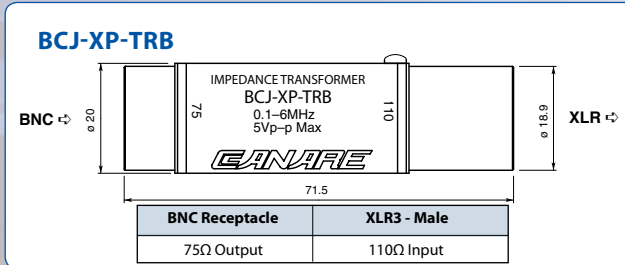
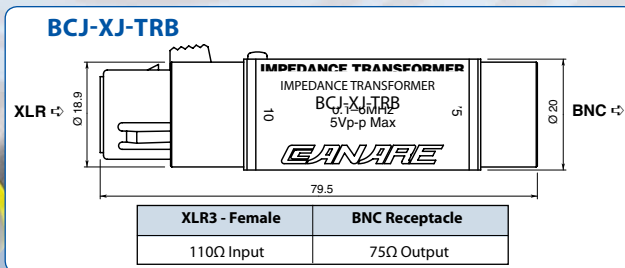
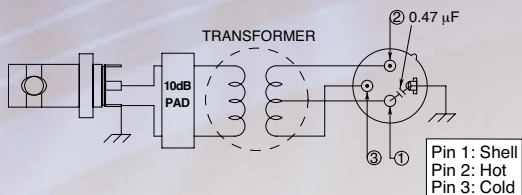
### BCJ-XJ-TRB / BCJ-XP-TRB

75Ω BNC (unbalanced)      110Ω XLR3 (balanced)



### BCJ-XJ-A10TRA

75Ω BNC (unbalanced)      110Ω XLR3 (balanced)



### PANEL MOUNT VERSIONS

Fits in all standard Canare Bulkhead Panels

Model	Description (Front ~ Back)
XJ3F-TRB-BCJ	XLR(F) ~ BNC
XJ3M-TRB-BCJ	XLR(M) ~ BNC
BCJ-TRB-XP3F	BNC ~ XLR(F)
BCJ-TRB-XP3M	BNC ~ XLR(M)
XJ3F-A10TRA-BCJ	XLR(F) ~ BNC 10dB Pad
BCJ-A10TRA-XP3F	BNC ~ XLR(F) 10dB Pad

110Ω - 75Ω Impedance Transformer: Input/Output Level Performance

AES/EBU Transmitter (V)	Transformer Out (V)	AES/EBU Transmitter (V)	Transformer Out -10dB Pad (V)
2.0	1.60	2.0	0.50
3.0	2.39	3.0	0.75
4.0	3.18	4.0	1.01
4.5	3.60	4.5	1.13
5.0	3.98	5.0	1.26
6.0	4.78	6.0	1.51
7.0	5.58	7.0	1.76
8.0	6.38	8.0	2.02
9.0	7.18	9.0	2.27
10.0	7.98	10.0	2.52

BCJ-XJ-TRB / BCJ-XP-TRB

BCJ-XJ-A10TRA