

# Multiplexers and Band Separators/Combiners

DSV Series, ZHLSJ, ZUVSJ



Blonder Tongue's multiplexers are designed to combine or separate the various bands of frequencies used in RF distribution systems. Several models are available, including: VHF LB & VHF HB split, VHF & UHF split, and sub-band & CATVsplit. The compact passive units exhibit low insertion loss and high isolation.

## ○ Features & Benefits

- Models Available in VHF Low/Highband, VHF/UHF and Sub/CATV
- Low Insertion Loss
- Superior Isolation
- Compact Housings

## ○ Specifications

Electrical	DSV		DSV-42	
	5-30	50-1000	DC-42	54-1000
Band Separation (MHz):	5-30	50-1000	DC-42	54-1000
Insertion Loss (dB):	0.5	1.0	0.5	1.0
Isolation (dB):	55 (a)	55 (b)	55 (c)	55 (d)
	45 (f)	45 (g)	45 (h)	
	45 (j)			
Impedance (Ohm):	75	75	75	75
Return Loss (dB):	14	14	14	14
<b>General</b>				
Power Passing Capability (A):	0.5	-	0.5	-
<b>Mechanical</b>				
Dimensions LxWxD:	(in)		7.38 x 1.69 x 1.00	
	(mm)		187x51x44	
Weight:	(oz)		7.1	
	(gr)		201	
			201	
<b>Connectors</b>				
RF Inputs/Outputs:	"F" type, female		"F" type, female	

## ○ DSV Specifications Notes

- |                   |                     |
|-------------------|---------------------|
| (a) 50 to 550 MHz | (f) 45 to 50 to MHz |
| (b) 5 to 30 MHz   | (g) 30 to 35 MHz    |
| (c) 54 to 860 MHz | (h) 860 - 1000 MHz  |
| (d) DC 42 MHz     | (j) 550 to 1000 MHz |
| (e) at 50 MHz     |                     |

Distribution



**ZHLSJ**  
Band Separator  
Low/High Band

## Specifications

**ZHLSJ**

Bandwidth	
Low:	DC to 108 MHz
High:	175 to 216 MHz
Low Band Rejection (54-108 MHz):	22 (Min.) dB
High Band Rejection (174-216 MHz):	20 (Min.) dB
Insertion Loss:	0.5 dB
Impedance:	75 Ohm
Power Passive:	Low band only



**ZUVSJ**  
Band Separator/  
Combiner UHF/VHF

## Specifications

**ZUVSJ**

Bandwidth	
VHF:	DC to 250 MHz
UHF:	470 to 890 MHz
VHF Band Rejection:	23 (Min.) dB
UHF Band Rejection:	30 (Min.) dB
Insertion Loss:	0.5 dB
Impedance:	75 Ohm
Power Passive:	VHF band only

## ○ Ordering Information

Model	Stock No.	Description
DSV-42	4376	Band Separator DC-42/54-1000 MHz Split
DSV	4375	Band Separator 5-30/50-1000 MHz Split
ZHLSJ	1977	Band Separator/Combiner Low & FM/ High
ZUVSJ	1978	Band Separator/Combiner UHF/VHF