

Multiplexers and Band Separators/Combiners

DSV Series, ZHLSJ, ZUVSJ



○ Features & Benefits

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

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.

○ 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 (Ω):	75	75	75	75
Return Loss (dB):	14	14	14	14
General				
Power Passing Capability (A):	0.5	-	0.5	-
Mechanical				
Dimensions (L x W x D):	7.38 x 1.69 x 1.00		7.38 x 1.69 x 1.00	
	in.		mm	
Weight:	187 x 51 x 44		187 x 51 x 44	
	lbs.		kgs	
	7.1		7.1	
	201		201	
Connectors				
RF Inputs/Outputs:	"F" Female		"F" 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 to 1000 MHz |
| (d) DC 42 MHz | (j) 550 to 1000 MHz |
| (e) at 50 MHz | |



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:	0.8 dB
Impedance:	75 Ω
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:	0.8 dB
Impedance:	75 Ω
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

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