

Horwin FI-V/Ux-x series is a ferrite isolators used for protection and isolation of VHF/UHF transmitters. There are two major benefits of isolator application: to prevent transmitter failure due to the high SWR and to prevent intermodulation caused by the nearby strong transmitting signal (signals).

There are two models with single or dual ferrite isolators and low/high power versions. Isolator nominal impedance is 50 Ohms. N-type “female” connectors are used for input/output connections.

Ferrite isolator modules are mounted into aluminium housing with radiator. Loading element is non removable. The isolators have black polymer powdered coating.

Isolators are tuned at customer specified frequency because no further tuning is possible, so transmit frequency should be specified when ordering.

## VHF/UHF Ferrite Isolators



### FI-V1-L

### FI-V2-L

### FI-V1-H

### FI-V2-H

FI x x x	ferrite isolator frequency range (V=VHF) isolator type (1=single, 2=dual) input power (L=50W, H=100W)	VHF low power single ferrite isolator	VHF low power dual ferrite isolator	VHF high power single ferrite isolator	VHF high power dual ferrite isolator
	Frequency range, MHz	144 – 174	144 – 174	144 – 174	144 – 174
	Max input power, W	50	50	100	100
	Isolation, dB	> 30	> 60	> 30	> 60
	Insertion losses, dB	< 0,4	< 0,8	< 0,4	< 0,8
	SWR	< 1,2	< 1,2	< 1,2	< 1,2
	Dimensions (HxWxD), mm	90 x 55 x 100	90 x 55 x 140	90 x 55 x 100	90 x 55 x 140
	Weight, kg	0,3	0,5	0,6	0,9

### FI-U1-L

### FI-U2-L

### FI-U1-H

### FI-U2-H

FI x x x	ferrite isolator frequency range (U=UHF) isolator type (1=single, 2=dual) input power (L=50W, H=100W)	UHF low power single ferrite isolator	UHF low power dual ferrite isolator	UHF high power single ferrite isolator	UHF high power dual ferrite isolator
	Frequency range, MHz	400 – 470	400 – 470	400 – 470	400 – 470
	Max input power, W	50	50	100	100
	Isolation, dB	> 30	> 60	> 30	> 60
	Insertion losses, dB	< 0,4	< 0,8	< 0,4	< 0,8
	SWR	< 1,2	< 1,2	< 1,2	< 1,2
	Dimensions (HxWxD), mm	90 x 55 x 100	90 x 55 x 140	90 x 55 x 100	90 x 55 x 140
	Weight, kg	0,3	0,5	0,6	0,9