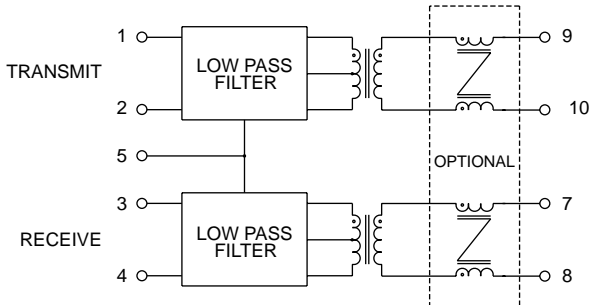


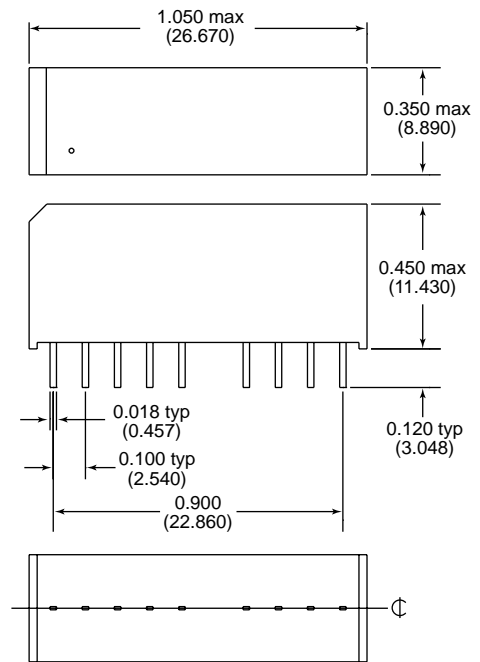
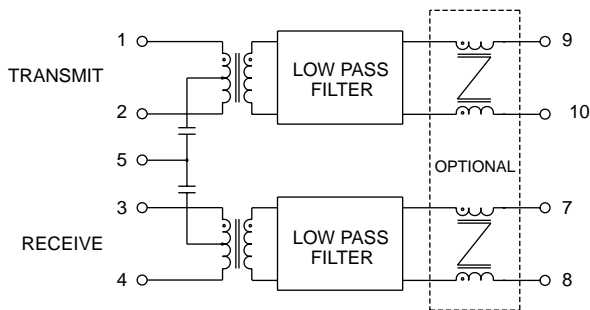
HALO Electronics has developed this standard series of Single-In-Line filter modules to specifically address the 10BASE-T requirements of IEEE 802.3. Filter modules are available for most LAN IC manufacturer's products. To select the correct filter component please refer to the HALO Electronics Filter Selection Guide.



**Schematic A**



**Schematic B**



DIMENSIONS: Inch(mm)

Electrical Specifications @ 25°C

Dielectric Withstanding Voltage: 2,000Vrms Min.  
 Insertion Loss (5-10MHz): -1 dB Max.  
 Return Loss (5-10MHz): -20 dB Min.

Cross Talk (1-10MHz): -30 dB Min.  
 Attenuation @ 30MHz: Transmit -27 dB Min.  
                                   Receive -18 dB Min.  
 Cutoff Frequency: 17 MHz Typ.

Part Number	Filter Description		Optional CMR Chokes	Schematic
	Transmit	Receive		
FS02-101Y2	100Ω Transformer + Filter	100Ω Transformer + Filter	-	A
FS12-101Y2	100Ω Transformer + Filter	100Ω Transformer + Filter	TX	A
FS22-101Y2	100Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	A
FS02-114Y2	50Ω Transformer + Filter	100Ω Transformer + Filter	-	B
FS12-114Y2	50Ω Transformer + Filter	100Ω Transformer + Filter	TX	B
FS22-114Y2	50Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	B

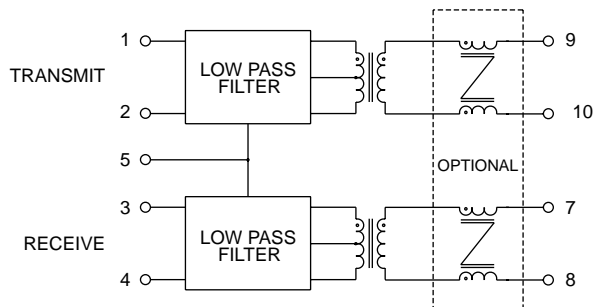


## “Slim SIP” 10BASE-T Filter Modules

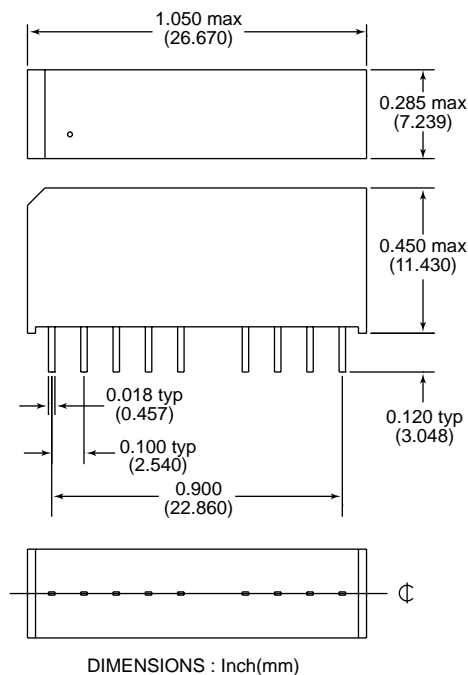
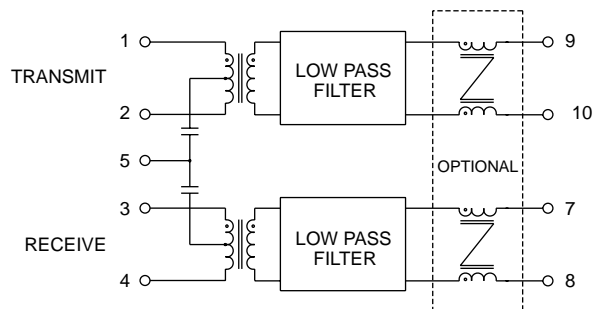


HALO Electronics has developed this standard series of “Slim SIP” filter modules to specifically address the 10BASE-T requirements of IEEE 802.3. Filter modules are available for most LAN IC manufacturer's products. To select the correct filter component please refer to the HALO Electronics Filter Selection Guide.

### Schematic A



### Schematic B



Electrical Specifications @ 25°C  
 Dielectric Withstanding Voltage: 2,000Vrms Min.  
 Insertion Loss (5-10MHz): -1 dB Max.  
 Return Loss (5-10MHz): -20 dB Min.

Cross Talk (1-10MHz): -30 dB Min.  
 Attenuation @ 30MHz: Transmit -27 dB Min.  
                                   Receive -18 dB Min.  
 Cutoff Frequency: 17 MHz Typ.

Part Number	Transmit	Filter Description	Receive	Optional CMR Chokes	Schematic
FS02-101Y4	100Ω Transformer + Filter		100Ω Transformer + Filter	–	A
FS12-101Y4	100Ω Transformer + Filter		100Ω Transformer + Filter	TX	A
FS22-101Y4	100Ω Transformer + Filter		100Ω Transformer + Filter	TX / RX	A
FS02-114Y4	50Ω Transformer + Filter		100Ω Transformer + Filter	–	B
FS12-114Y4	50Ω Transformer + Filter		100Ω Transformer + Filter	TX	B
FS22-114Y4	50Ω Transformer + Filter		100Ω Transformer + Filter	TX / RX	B