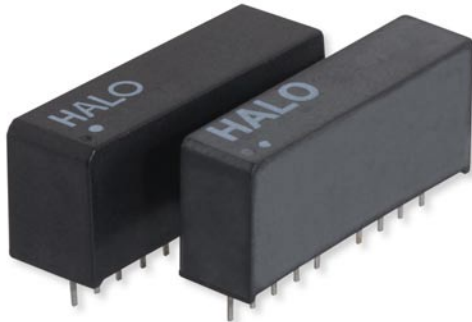


# 10BASE-T Filter Modules

SIP & Slim SIP Package Isolation Modules with Optional Chokes



## Product Features:

- Standard series of 100Ω and 50Ω/100Ω filter modules to specifically address the 10BASE-T requirements of IEEE 802.3
- Choice of regular or slim packages
- Optional TX or TX/RX chokes
- Available for most LAN IC manufacturer's products

Part Number	SIP Package		Optional CMR Chokes	Schematic/Package
	Transmit	Receive		
FS02-101Y2RL	100Ω Transformer + Filter	100Ω Transformer + Filter		Y2/A
FS12-101Y2RL	100Ω Transformer + Filter	100Ω Transformer + Filter	TX	Y2/A
FS22-101Y2RL	100Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	Y2/A
FS02-114Y2RL	50Ω Transformer + Filter	100Ω Transformer + Filter	–	Y2/B
FS12-114Y2RL	50Ω Transformer + Filter	100Ω Transformer + Filter	TX	Y2/B
FS22-114Y2RL	50Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	Y2/B

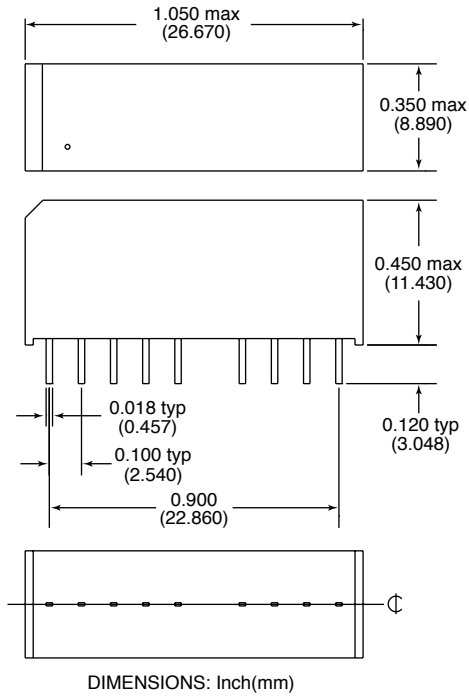
Part Number	Slim SIP Package		Optional CMR Chokes	Schematic/Package
	Transmit	Receive		
FS02-101Y4RL	100Ω Transformer + Filter	100Ω Transformer + Filter	–	Y4/A
FS12-101Y4RL	100Ω Transformer + Filter	100Ω Transformer + Filter	TX	Y4/A
FS22-101Y4RL	100Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	Y4/A
FS02-114Y4RL	50Ω Transformer + Filter	100Ω Transformer + Filter	–	Y4/B
FS12-114Y4RL	50Ω Transformer + Filter	100Ω Transformer + Filter	TX	Y4/B
FS22-114Y4RL	50Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	Y4/B

## Electrical Specifications @ 25°C

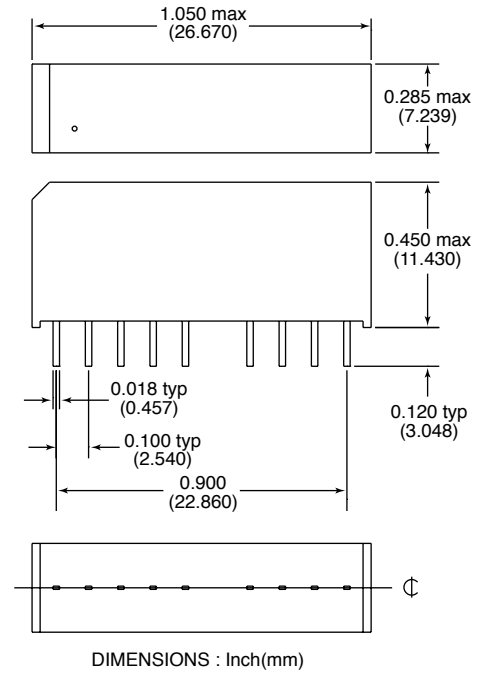
Dielectric Withstanding Voltage:	2,000Vrms
Insertion Loss (5-10MHz):	-1 dB Max.
Return Loss (5-10MHz):	-20 dB Min.
Cross Talk (1-10MHz):	-30 dB Min.
Attenuation @ 30MHz:	Transmit -27 dB Min. Receive -18 dB Min.
Cutoff Frequency:	17 MHz Typ.

# 10BASE-T Filter Modules

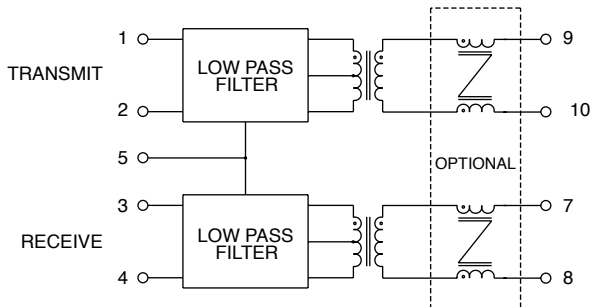
## Package Y2



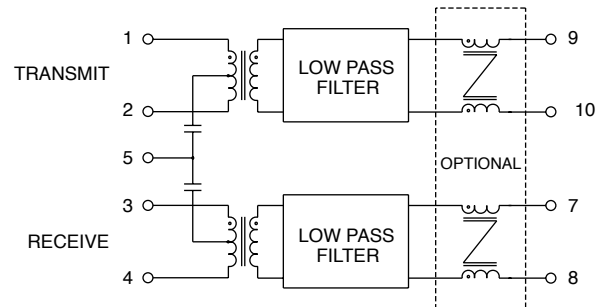
## Package Y4



## Schematic A



## Schematic B



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HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.