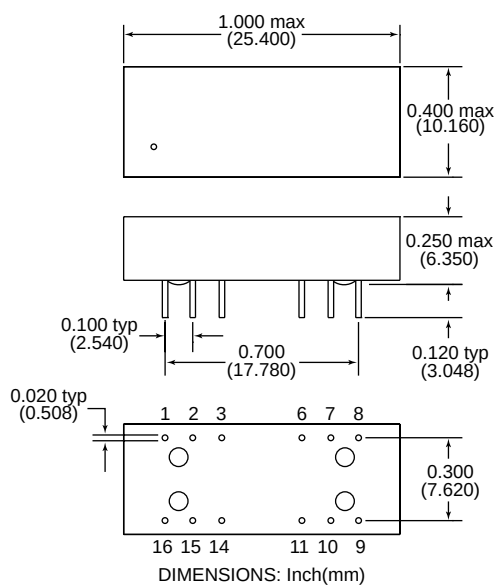


100Ω DIL 10BASE-T Filter Modules

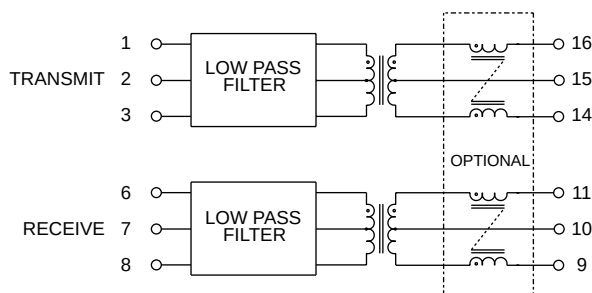
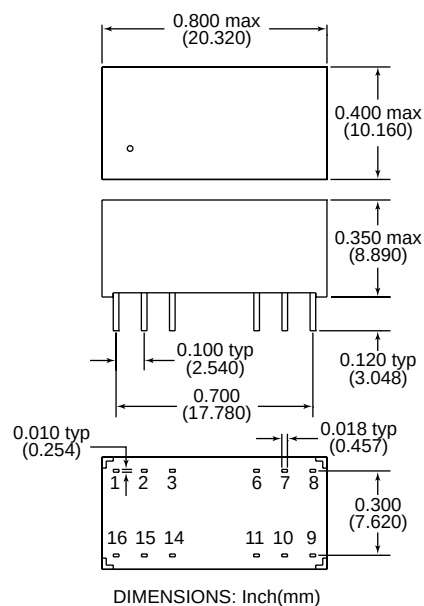


HALO Electronics has developed this standard series of 100Ω filter modules to specifically address the 10BASE-T requirements of IEEE 802.3. Filter modules are available for most LAN IC manufacturer's products. To select the correct isolation module, please refer to the HALO 10BASE-T Selector Guide.

Package G



Package H



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):

Attenuation @ 30MHz: Transmit
 Receive

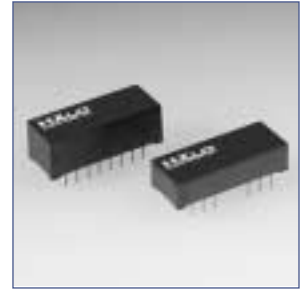
-30 dB Min.
 -27 dB Min.
 -18 dB Min.
 17 MHz Typ.

Cutoff Frequency:

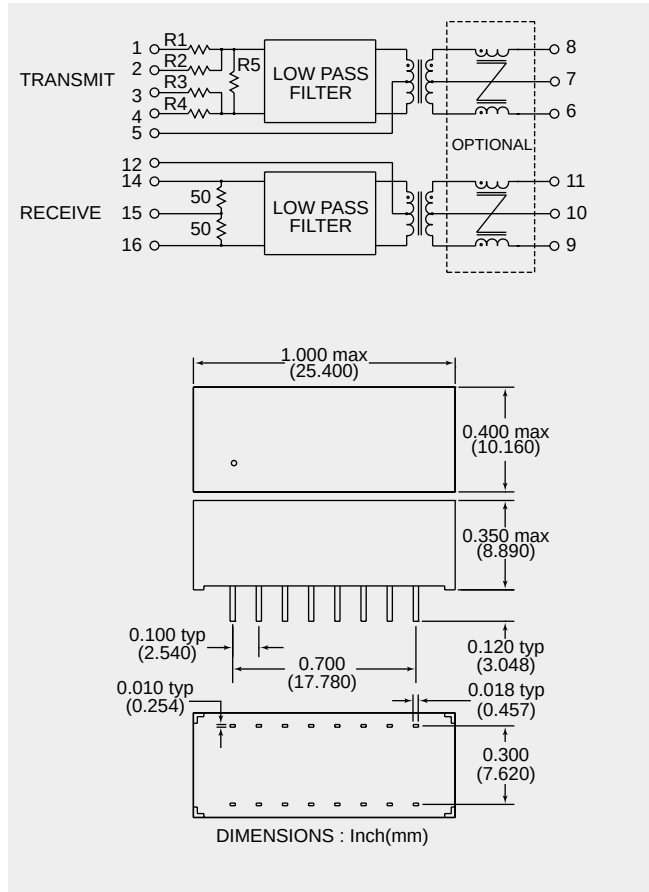
Part Number	Transmit Filter Description	Receive Filter Description	Optional CMR Chokes	Package
FD02-101G	100Ω Transformer + Filter	100Ω Transformer + Filter	—	G
FD12-101G	100Ω Transformer + Filter	100Ω Transformer + Filter	TX	G
FD22-101G	100Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	G
FD02-101H	100Ω Transformer + Filter	100Ω Transformer + Filter	—	H
FD12-101H	100Ω Transformer + Filter	100Ω Transformer + Filter	TX	H
FD22-101H	100Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	H

DIL10BASE-T Filters with Integrated Resistors

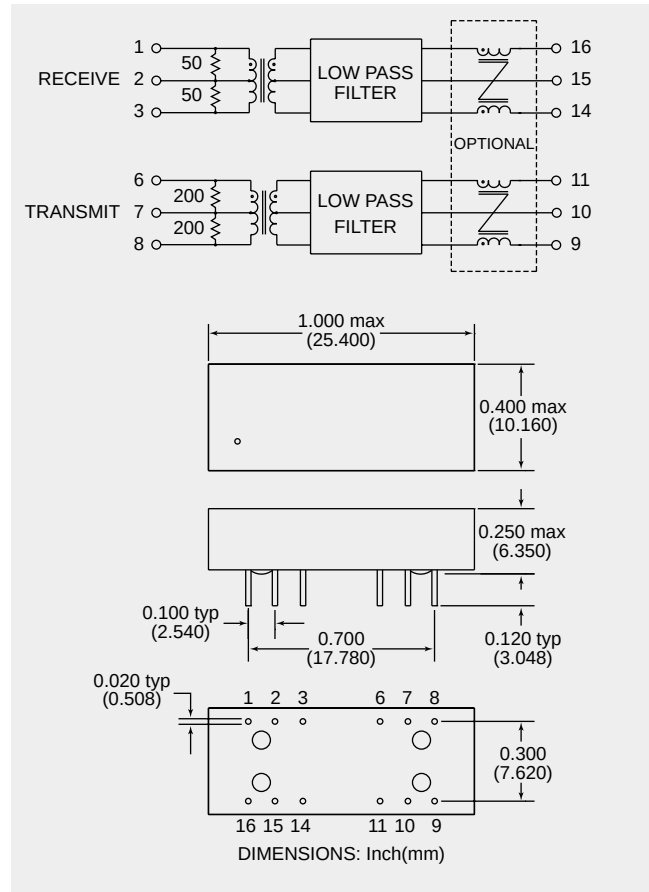
HALO Electronics has developed this standard series of highly integrated filter modules to specifically address the 10BASE-T requirements of IEEE 802.3. Filter modules are available for most LAN IC manufacturer's products. To select the correct filter component please refer to the HALO Electronics Filter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



Schematic / Package A



Schematic / Package 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):

Attenuation @ 30MHz:

Transmit
Receive

-30 dB Min.

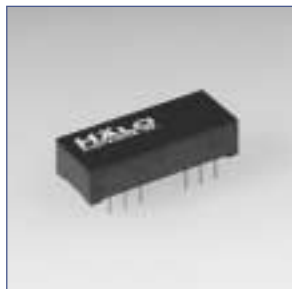
-27 dB Min.

-18 dB Min.

Cutoff Frequency:

17 MHz Typ.

Part Number	Transmit	Filter Description	Receive	Optional CMR Chokes	Schematic/Package
FD22-101R1	100Ω Transformer + Filter		100Ω Transformer + Filter	TX/RX	A
FD12-101R2	100Ω Transformer + Filter		100Ω Transformer + Filter	TX	A
FD22-101R2	100Ω Transformer + Filter		100Ω Transformer + Filter	TX / RX	A
FD02-104R1	400Ω Transformer + Filter		100Ω Transformer + Filter	—	B
FD12-104R1	400Ω Transformer + Filter		100Ω Transformer + Filter	TX	B
FD22-104R1	400Ω Transformer + Filter		100Ω Transformer + Filter	TX / RX	B

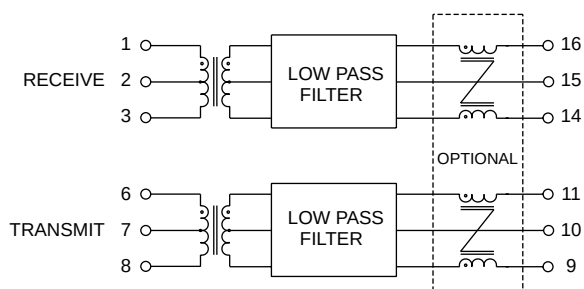


Impedance Matching DIL 10BASE-T Filter Modules

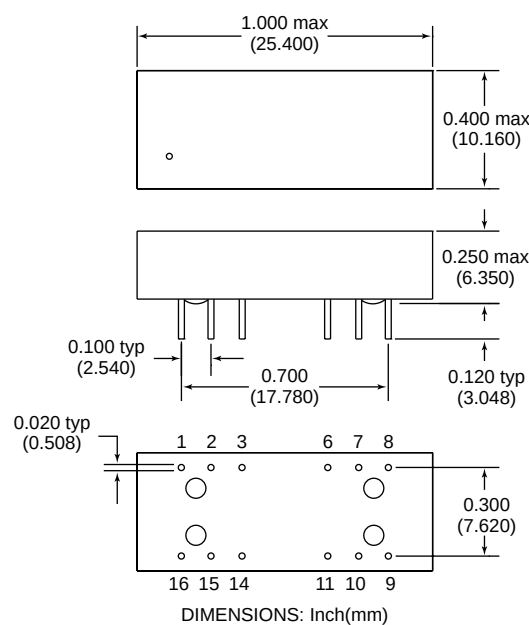
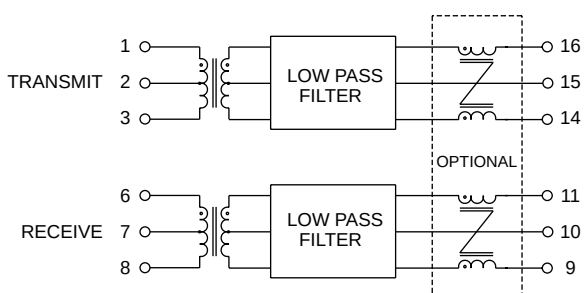
HALO
ELECTRONICS, INC.

HALO Electronics has developed this standard series of impedance matching 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	Filter Description		Optional CMR Chokes	Package
	Transmit	Receive		
FD02-104G1	400Ω Transformer + Filter	100Ω Transformer + Filter	—	A
FD12-104G1	400Ω Transformer + Filter	100Ω Transformer + Filter	TX	A
FD22-104G1	400Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	A
FD02-114G	50Ω Transformer + Filter	100Ω Transformer + Filter	—	B
FD12-114G	50Ω Transformer + Filter	100Ω Transformer + Filter	TX	B
FD22-114G	50Ω Transformer + Filter	100Ω Transformer + Filter	TX / RX	B