

HALO offers a complete line of isolation modules to meet the isolation and impedance matching requirements of IEEE 802.3 for 10BASE-T. Modules are available in single and multiport packages. This selector guide is provided to help the designer select the correct magnetic device compatible with the corresponding IC. Please contact your local HALO representative if the silicon of your choice is not listed in this guide.

Vendor	Silicon Part Number	Single Port SMD Devices		Dual Port SMD	Quad Port SMD Devices	
		Transformers	Trans. & CMC	Transformers	Transformers	Trans. & CMC
AMD	Am79C984A	TG04-1006N1	TG81-1006N	TG01-1006N2	TG57-NX	TG59-NX
AMD	Am79C985	TG04-1006N1	TG81-1006N	TG01-1006N2	TG57-NX	TG59-NX
AMD	Am79C988A	TG04-1006N1	TG81-1006N	TG01-1006N2	TG57-NX	TG59-NX
AMD	Am79C989	TG04-1006N1	TG81-1006N	TG01-1006N2	TG57-NX	TG59-NX
Crystal	CS8900A-CQ/IQ	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
Crystal	CS8900A-CQ3/IQ3	TG92-2006N1	TG41-2006N	-	-	TG41-NX
Crystal	CS8904-CM3	TG92-2006N1	TG41-2006N	-	-	TG41-NX
Crystal	CS8904-CM5	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
Crystal	CS8920	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
Level 1	LXT901/901A/907	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
Level 1	LXT905/908	TG74-1406N1	TG75-1406N	-	-	-
Level 1	LXT914/5/6/7	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
Level 1	LXT944	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
μLinear	ML2652	TG62-1006N1	TG66-1006N	-	TG62-NX	TG66-NX
NSC	DP83953	TG84-2006N1	TG86-2006N	TG83-2006N2	TG87-NX	TG89-NX
NSC	DP83907	TG84-2006N1	TG86-2006N	TG83-2006N2	-	-
SEEQ	80C24/25	TG62-1006N1	TG66-1006N	-	TG62-NX	TG66-NX
T. I.	TNETE2004	TG42-1406N1	TG43-1406N	TG55-1406N2*	TG44-NX	TG46-NX
T. I.	TNETE2008	TG04-1006N1	TG81-1006N	TG01-1006N2	TG57-NX	TG59-NX

* The TG55-1406N2 (x2) can be replaced by one TG01-1006N2 (RX) and one TG54-1006N2 (TX)

Ultra low profile devices are available for single port PCMCIA applications. Please contact your local HALO representative for additional information.

HALO Dual Port 10BASE-T Isolation Modules

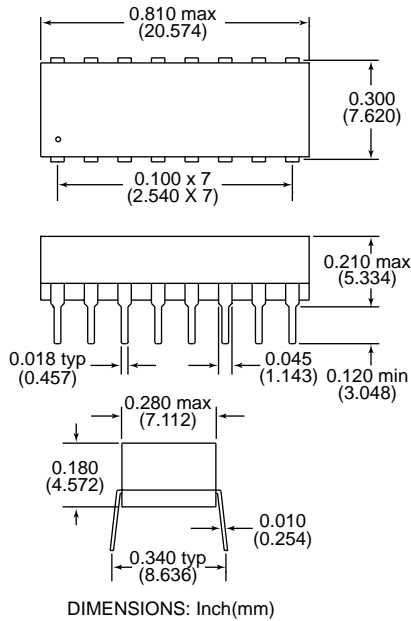
HALO ELECTRONICS, INC.

HALO Electronics has developed these standard Dual Port Isolation Modules to meet the isolation requirements of IEEE 802.3. Designed specifically for use with the new "filterless" repeater / switch chips and "stacked" RJ45 connectors. Non-standard turns ratios are also available. Please contact your local Representative or HALO direct.

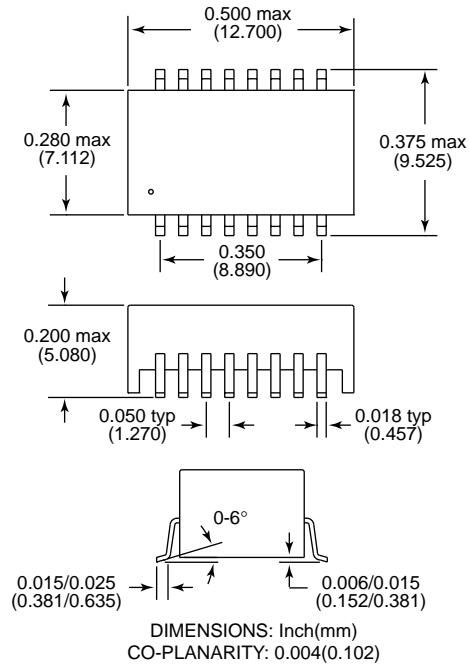


Dual Port 10BASE-T Isolation Modules

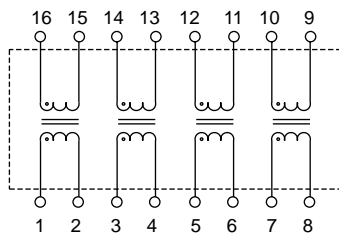
DIL Package



SMD Package



Schematic



Patented Construction

US Patents: 5,656,985
6,297,721 B1; 6,297,720 B1
6,320,489 B1; 6,344,785 B1

Electrical Specifications @ 25°C

Isolation: 2,000 Vrms
Insulation Resistance: 10,000 MΩ
Rise Time: 3.0 nS Max.
Cw/w: 12 pF Max.

Part Number	Package	Turns Ratio $\pm 3\%$		PRI OCL (μH)	PRI DCR (Ω max.)	PRI LL (μH max.)
		PRI /SEC	PRI (1-2), (3-4), (5-6), (7-8)			
TD01-1006L1	DIL	(1 : 1), (1 : 1), (1 : 1), (1 : 1)	(1 : 1), (1 : 1), (1 : 1), (1 : 1)	100 Typ.	0.3	0.3
TG01-1006N2	SMD	(1 : 1), (1 : 1), (1 : 1), (1 : 1)	(1 : 1), (1 : 1), (1 : 1), (1 : 1)	100 Typ.	0.3	0.3
TD54-1006L1	DIL	(1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$)	(1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$)	140 Typ.	0.4	0.4
TG54-1006N2	SMD	(1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$)	(1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$)	140 Typ.	0.4	0.4
TD55-1406L1	DIL	(1 : 1), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : 1)	(1 : 1), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : 1)	140 / 140 Typ.	0.4 / 0.4	0.4
TG55-1406N2	SMD	(1 : 1), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : 1)	(1 : 1), (1 : $\sqrt{2}$), (1 : $\sqrt{2}$), (1 : 1)	140 / 140 Typ.	0.4 / 0.4	0.4
TD83-2006L1	DIL	(1 : 1), (1 : 2), (1 : 2), (1 : 1)	(1 : 1), (1 : 2), (1 : 2), (1 : 1)	200 / 50 Min.	0.5 / 0.35	0.15
TG83-2006N2	SMD	(1 : 1), (1 : 2), (1 : 2), (1 : 1)	(1 : 1), (1 : 2), (1 : 2), (1 : 1)	200 / 50 Min.	0.5 / 0.35	0.15