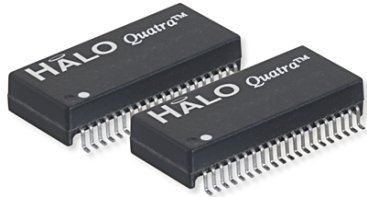


Quatra™ 10BASE-T Transformer

SMD Quad Port 10BASE-T Transformer



Product Features:

- Four Port 10BASE-T
- IEEE802.3i Compliant
- UL/EN60950 Recognized
- 100% Compliance Testing
- 1500Vrms Hi-Pot
- Patented Open Frame Construction

Part Number	Turns Ratio ±3% TX	RX	PRI OCL TX/RX (μH typ)	Cw/w TX/RX (pF max)	PRI LL TX/RX (μH max)	PRI DCR TX/RX (Ω max)	Optional CMR Choke	RoHS ¹
TG44-1406NXLF	1CT:1.41	1:1	140	12	0.4	0.4	N/A	Pb-Free
TG44-1406NXRL	1CT:1.41	1:1	140	12	0.4	0.4	N/A	RoHS (7a)
TG45-1406NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	Pb-Free
TG45-1406NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	RoHS (7a)
TG46-1406NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	Pb-Free
TG46-1406NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	RoHS (7a)
TG57-1006NXLF	1CT:1	1:1	100	12	0.3	0.3	N/A	Pb-Free
TG57-1006NXRL	1CT:1	1:1	100	12	0.3	0.3	N/A	RoHS (7a)
TG58-1006NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX	Pb-Free
TG58-1006NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX	RoHS (7a)
TG59-1006NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	Pb-Free
TG59-1006NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	RoHS (7a)
TG62-1006NXLF	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	Pb-Free
TG62-1006NXRL	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	RoHS (7a)
TG66-1006NXLF	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX	Pb-Free
TG66-1006NXRL	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX	RoHS (7a)
TG87-2006NXLF	1CT:2	1:1	50 / 200	10 / 15	0.15 / 0.2	0.35 / 0.5	N/A	Pb-Free
TG87-2006NXRL	1CT:2	1:1	50 / 200	10 / 15	0.15 / 0.2	0.35 / 0.5	N/A	RoHS (7a)
TG88-2006NXLF	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	Pb-Free
TG88-2006NXRL	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	RoHS (7a)
TG89-2006NXLF	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.3	0.35 / 0.5	TX/RX	Pb-Free
TG89-2006NXRL	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.3	0.35 / 0.5	TX/RX	RoHS (7a)

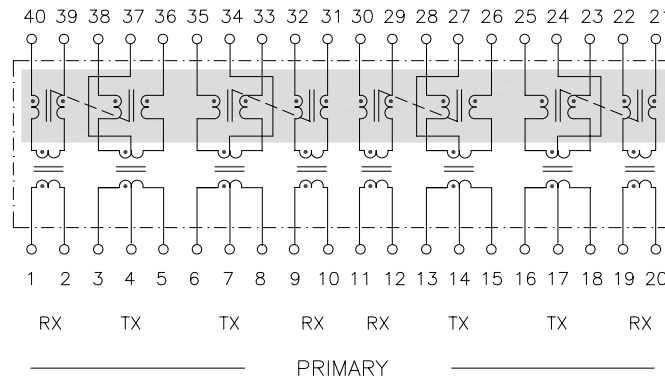
Notes:

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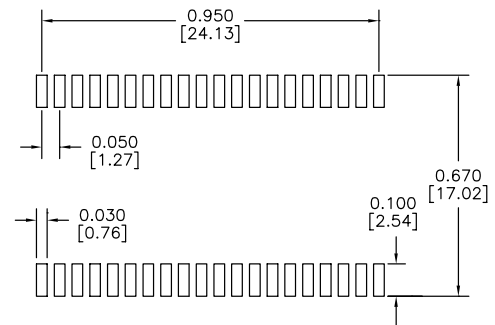
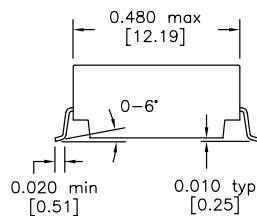
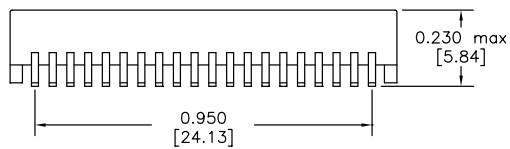
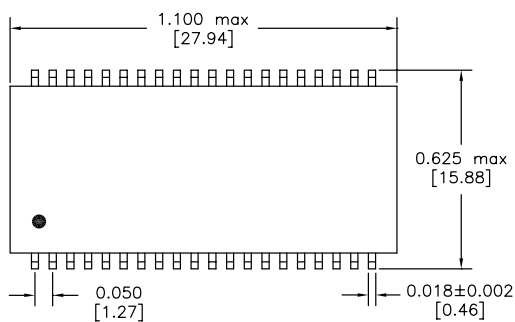
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HALO Quatra 10BASE-T Transformers

Circuit Diagram



Mechanical



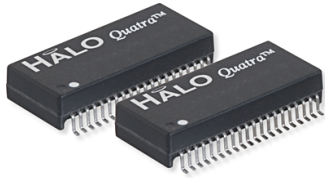
Recommended Solder Pad Layout
 Dimensions: inch [mm]
 Co-Planarity: 0.004 [0.10]

US Patent Numbers:
 5,656,985 6,297,721 B1
 6,297,720 B1 6,320,489 B1
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TG41-S010NXLF	1CT:2.5CT	1:1	35 / 200	15	0.1 / 0.4	0.3 / 0.5	TX/RX	Pb-Free
TG41-S010NXRL	1CT:2.5CT	1:1	35 / 200	15	0.1 / 0.4	0.3 / 0.5	TX/RX	RoHS (7a)
TG44-S010NXLF	1CT:1.41	1:1	140	12	0.4	0.4	N/A	Pb-Free
TG44-S010NXRL	1CT:1.41	1:1	140	12	0.4	0.4	N/A	RoHS (7a)
TG45-S010NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	Pb-Free
TG45-S010NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	RoHS (7a)
TG46-S010NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	Pb-Free
TG46-S010NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	RoHS (7a)
TG57-S010NXLF	1CT:1CT	1:1	100	12	0.3	0.3	N/A	Pb-Free
TG57-S010NXRL	1CT:1CT	1:1	100	12	0.3	0.3	N/A	RoHS (7a)
TG58-S010NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX	Pb-Free
TG58-S010NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX	RoHS (7a)
TG59-S010NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	Pb-Free
TG59-S010NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	RoHS (7a)
TG62-S010NXLF	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	Pb-Free
TG62-S010NXRL	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	RoHS (7a)
TG66-S010NXLF	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX/RX	Pb-Free
TG66-S010NXRL	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX/RX	RoHS (7a)
TG87-S010NXLF	1CT:2	1:1	50 / 200	9 / 11	0.75 / 0.15	0.35 / 0.5	N/A	Pb-Free
TG87-S010NXRL	1CT:2	1:1	50 / 200	9 / 11	0.75 / 0.15	0.35 / 0.5	N/A	RoHS (7a)
TG88-S010NXLF	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	Pb-Free
TG88-S010NXRL	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	RoHS (7a)
TG89-S010NXLF	1CT:2CT	1:1	50 / 200	9 / 14	0.2 / 0.3	0.2 / 0.3	TX/RX	Pb-Free
TG89-S010NXRL	1CT:2CT	1:1	50 / 200	9 / 14	0.2 / 0.3	0.2 / 0.3	TX/RX	RoHS (7a)

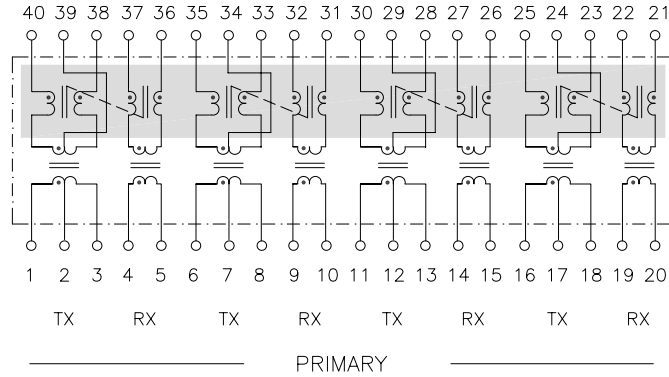
Notes:

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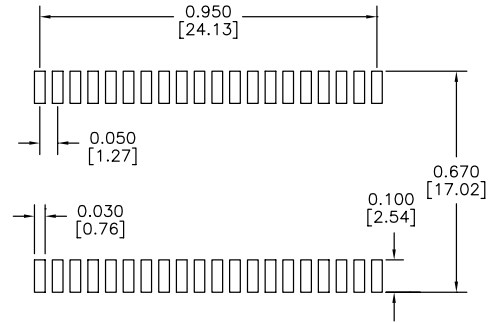
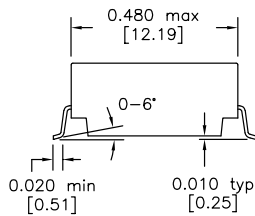
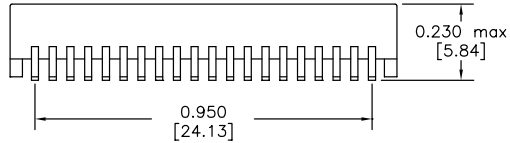
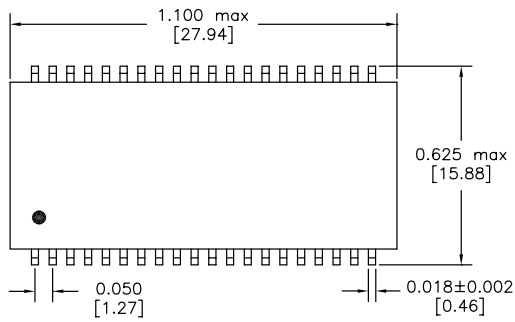
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HALO Quatra 10BASE-T Transformers

Circuit Diagram



Mechanical



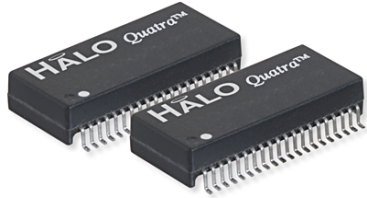
Recommended Solder Pad Layout
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 Co-Planarity: 0.004 [0.10]

US Patent Numbers:
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Part Number	Turns Ratio ±3% TX	RX	PRI OCL TX/RX (μH typ)	Cw/w TX/RX (pF max)	PRI LL TX/RX (μH max)	PRI DCR TX/RX (Ω max)	Optional CMR Choke	RoHS ¹
TG44-S020NXLF	1CT:1.41	1:1	140	12	0.4	0.4	N/A	Pb-Free
TG44-S020NXRL	1CT:1.41	1:1	140	12	0.4	0.4	N/A	RoHS (7a)
TG45-S020NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	Pb-Free
TG45-S020NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX	RoHS (7a)
TG46-S020NXLF	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	Pb-Free
TG46-S020NXRL	1CT:1.41CT	1:1	140	12	0.4	0.4	TX/RX	RoHS (7a)
TG57-S020NXLF	1CT:1	1:1	100	12	0.3	0.3	N/A	Pb-Free
TG57-S020NXRL	1CT:1	1:1	100	12	0.3	0.3	N/A	RoHS (7a)
TG58-S020NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX	Pb-Free
TG58-S020NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX	RoHS (7a)
TG59-S020NXLF	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	Pb-Free
TG59-S020NXRL	1CT:1CT	1:1	100	12	0.3	0.3	TX/RX	RoHS (7a)
TG62-S020NXLF	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	Pb-Free
TG62-S020NXRL	2CT:1	1:1	150	10	0.6 / 0.3	0.35	N/A	RoHS (7a)
TG66-S020NXLF	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX/RX	Pb-Free
TG66-S020NXRL	2CT:1CT	1:1	150	10	0.9 / 0.3	0.35	TX/RX	RoHS (7a)
TG87-S020NXLF	1CT:2	1:1	50 / 200	9 / 11	0.075 / 0.15	0.35 / 0.5	N/A	Pb-Free
TG87-S020NXRL	1CT:2	1:1	50 / 200	9 / 11	0.075 / 0.15	0.35 / 0.5	N/A	RoHS (7a)
TG88-S020NXLF	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	Pb-Free
TG88-S020NXRL	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.15	0.35 / 0.5	TX	RoHS (7a)
TG89-S020NXLF	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.3	0.35 / 0.5	TX/RX	Pb-Free
TG89-S020NXRL	1CT:2CT	1:1	50 / 200	9 / 11	0.2 / 0.3	0.35 / 0.5	TX/RX	RoHS (7a)

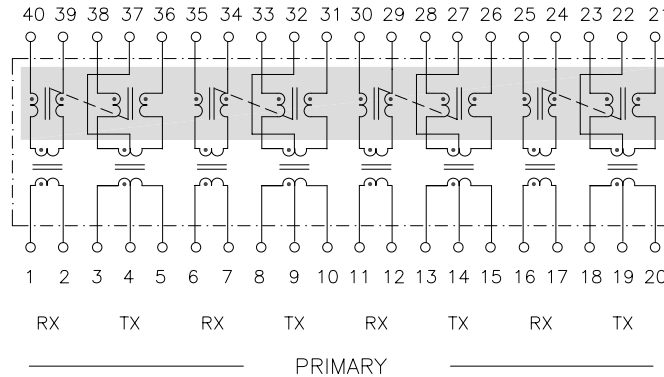
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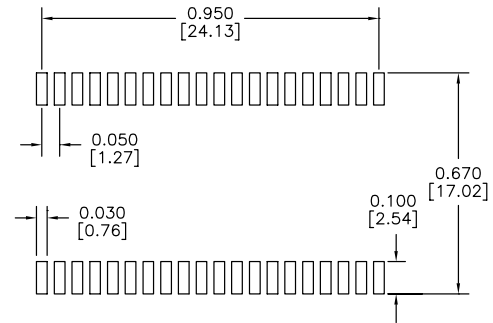
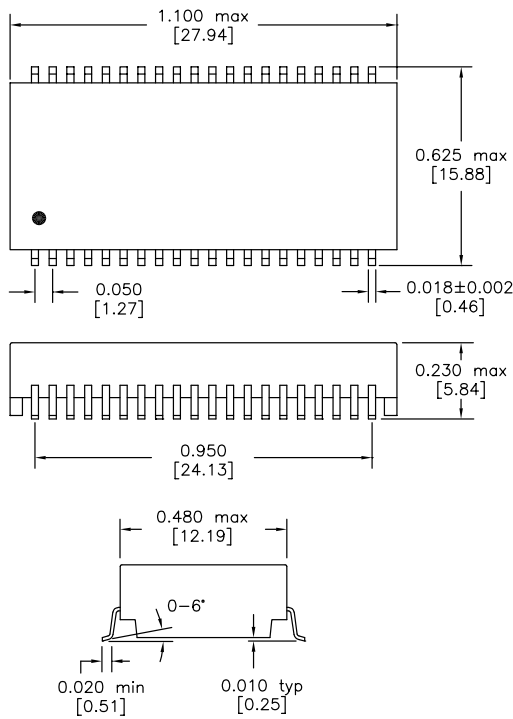
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Mechanical



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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.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru