

LAN MAGNETICS



PALNOVA

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PalNova LAN Magnetic Modules

	PalNova P/N	Ports	Pins	Style	Schematic Configuration		Operating Temperature
10/100 Base-T					TX	RX	
	LDM-S16S-C032	Single	16	SOIC	C,T	C,T	STD.
	LDM-S16S-C046	Single	16	SOIC	T,C	T,C	STD
	LDM-S16S-C069	Single	16	SOIC	T,C	T,C	STD.
	LDM-S16E-C118	Single	16	SOIC	C,T	C,T	EXT.
	LDM-S16S-C680	Single	16	SOIC	T,C	T,C	STD.
	LDM-D24S-C101	Dual *	24	SMT	T,C	T,C	STD.
	LDM-D24S-C103	Dual *	24	SMT	T,C,S	T	STD.
	LDM-D24E-C207	Dual *	24	SMT	T,C	C,T	EXT.
	LDM-D24S-C273	Dual	24	SMT	T,C	C,T	STD.
	LDM-D48E-C278	Dual	48	SMT	T,C	T,C	EXT.
	LDM-D40E-C280	Dual	40	SOIC	T,C	T,C	EXT.
	LDM-Q40S-C061	Quad	40	SOIC	T,C	C,T	STD.
	LDM-Q40S-C116	Quad	40	SOIC	T,C	T,C	STD.
	LDM-Q40E-C215	Quad	40	SOIC	T,C	T,C	EXT.
	LDM-Q48S-C026	Quad	48	SMT	T,C,S	C,T	STD.
1000 Base-T							
	LDM-S24S-G060	Single	24	SOIC	T,C,S	T,C,S	STD.
	LDM-S24S-G302	Single	24	SOIC	C,T	C,T	STD.
	LDM-S24E-G332	Single	24	SOIC	C,T	C,T	EXT.
	LDM-S24E-G547	Single	24	SOIC	T,C	T,C	EXT.
	LDM-S24E-G650	Single*	24	SOIC	T,C	T,C	EXT.
	LDM-S24S-G726	Single*	24	SOIC	C,T	C,T	STD.
	LDM-S24S-G860	Single	24	SMT	T,C	T,C	STD.
	LDM-D48S-G134	Dual	48	SMT	C,T	C,T	STD.
	LDM-D48S-G167	Dual	48	SMT	T,C,S	T,C,S	STD.
	LDM-D48S-G168	Dual	48	SMT	T,C	T,C	STD.
	LDM-D50S-G182	Dual	50	SMT	T,C	T,C	STD.
	LDM-D48S-G266	Dual*	48	SMT	C,T	C,T	STD.

NOTES:

T = Transformers, C = Chokes, S = Shunt Inductor

SOIC = 0.050/1.27mm pitch leads, SMT = 0.040/1.02mm pitch leads

STD = 0°C to +70°C operating temp, EXT. = - 40°C to +85°C operating temp.

*** = Power over Ethernet (PoE), 350mA balanced DC line current capability.**



1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S16S-C032

SPECIFICATION: 10/100 BASE TRANSFORMER

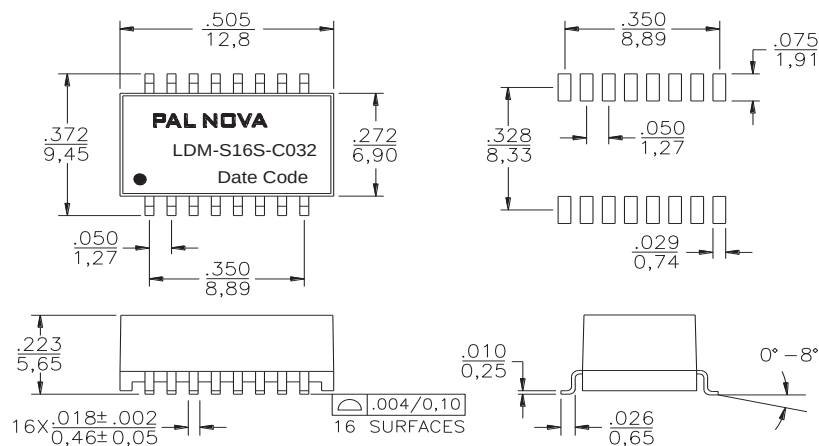
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 16PIN SMD PROFILE PACKAGE

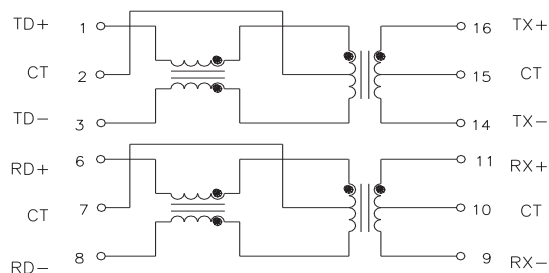
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are:± $\frac{.012}{0,30}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S16S-C032	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 PRI TO SEC : 1500V AC 1mA 6S

4.2 T/R: 60KHz 1V

(9-11):(8-6)=1CT : 1CT $\pm$ 5%

(14-16):(3-1)=1CT : 1CT $\pm$ 5%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC.

4.4 PRI LL : 0.5 μ H MAX @ 100KHz 100mV .

4.5 DCR : PRI = 1.2 Ω MAX

4.6 IL(TX&RX) : -1.15dB MAX @0.1~100MHz

4.7 RL(TX&RX) : -20dB MIN @ 30MHz

-14dB MIN @ 60MHz

-12dB MIN @ 80MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 DCMR : -42dB MIN @ 30MHz

-37dB MIN @ 60MHz

-33dB MIN @ 100MHz

PRODUCT P/N: LDM-S16S-C032	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1. GENERAL SPECIFICATION:

PART NUMBER: LDM-S16S-C046

SPECIFICATION: 10/100 BASE TRANSFORMER

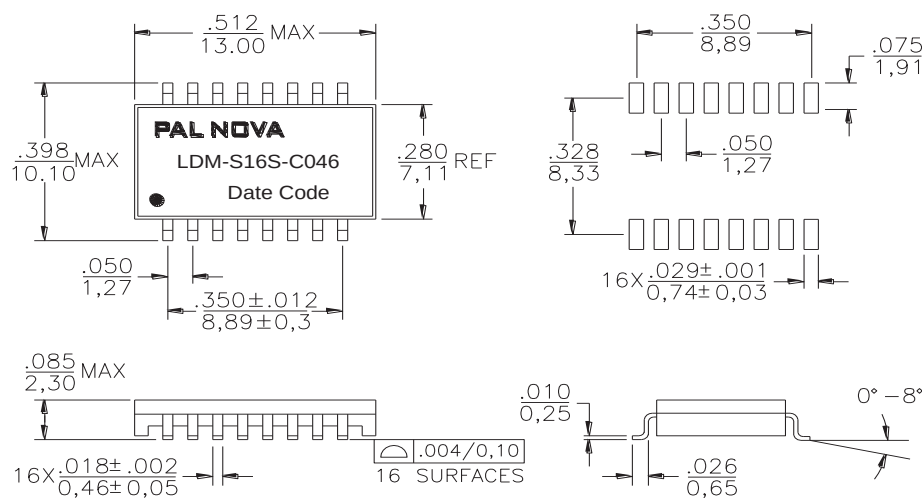
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

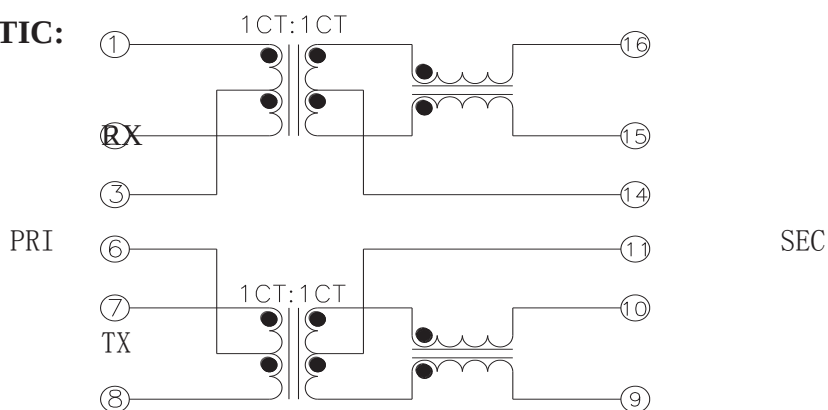
PACKAGE: 16PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2. DIMENSIONS (unit: inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S16S-C046	Page 1 of 2
PRODUCT NAME: 10/100BASE TRANSFORMER	REV: 01-07/18/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S16S-C046

SPECIFICATION: 10/100 BASE TRANSFORMER

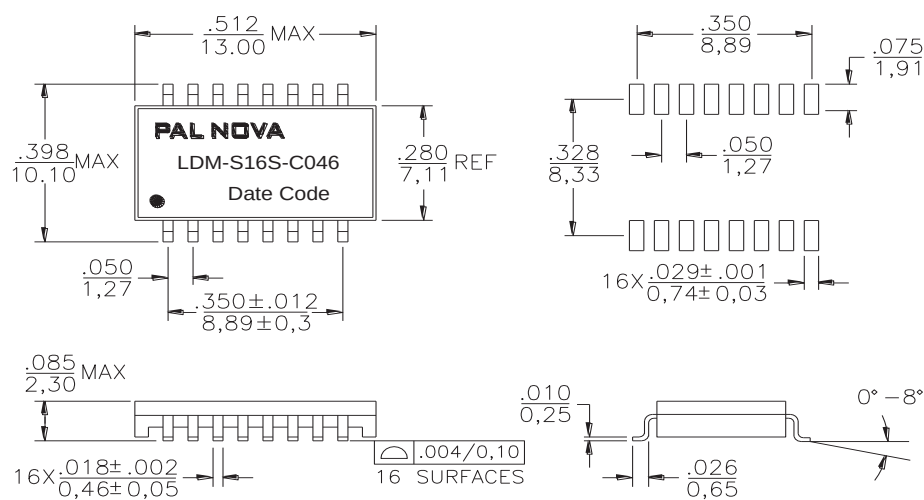
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

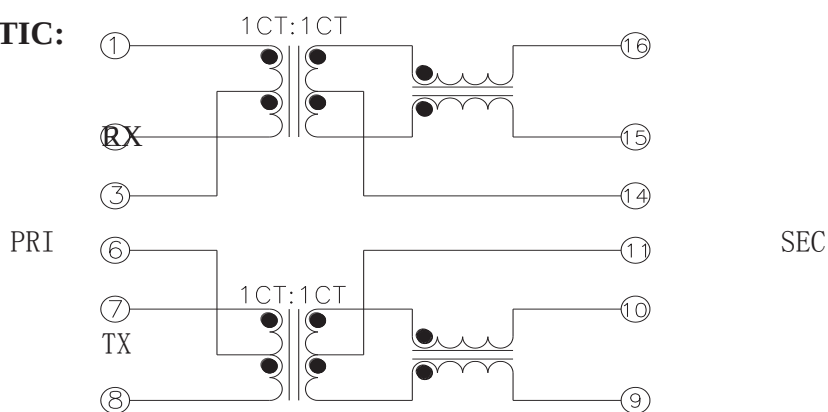
PACKAGE: 16PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S16S-C046	Page 1 of 2
PRODUCT NAME: 10/100BASE TRANSFORMER	REV: 01-07/18/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S16S-C069

SPECIFICATION: 10/100 BASE TRANSFORMER

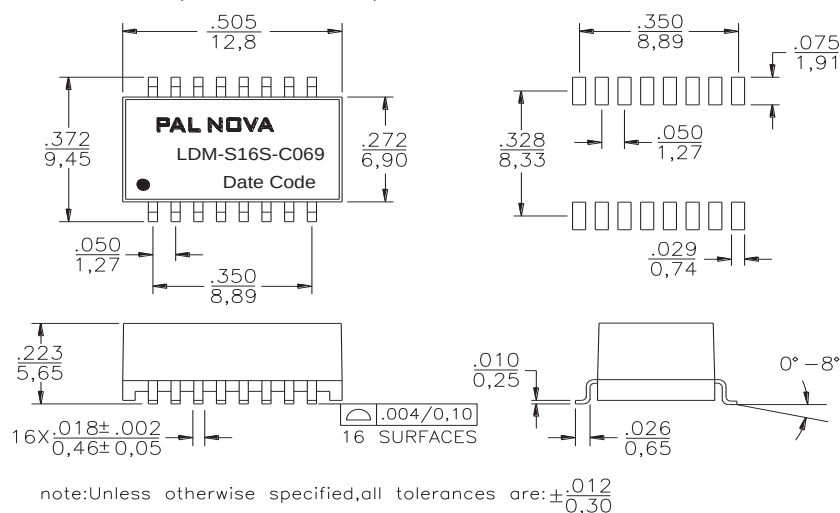
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

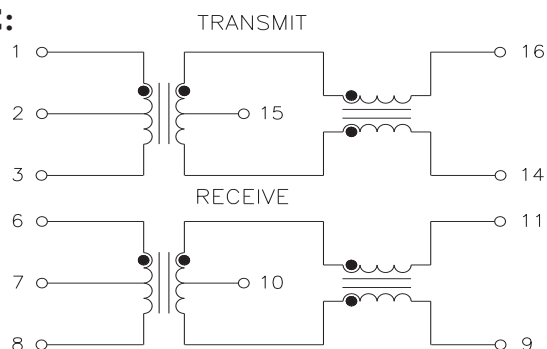
PACKAGE: 16PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S16S-C069	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

- 4.1 PRI TO SEC : 1500V AC 1mA 6S
- 4.2 T/R: 60KHz 1V
 - TX: 1CT : 1CT $\pm$ 5%
 - RX: 1CT : 1CT $\pm$ 5%
- 4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC.
- 4.4 PRI/SEC L/L : 0.5 μ H MAX @ 100KHz 100mV .
- 4.5 DCR : @25°C 0.9 Ω MAX
- 4.6 CWW : 100KHz 100mV 30pF MAX
- 4.7 IL(TX&RX) : -1.15dB MAX @0.1~100MHz
- 4.8 RL(TX&RX) : -20dB MIN @ 30MHz
 - 14dB MIN @ 60MHz
 - 12dB MIN @ 80MHz
- 4.9 CT : -45dB MIN @ 30MHz
 - 40dB MIN @ 60MHz
 - 35dB MIN @ 100MHz
- 4.10 DCMR : -42dB MIN @ 30MHz
 - 37dB MIN @ 60MHz
 - 33dB MIN @ 100MHz

PRODUCT P/N: LDM-S16S-C069	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S16E-C118

SPECIFICATION: 10/100 BASE FILTER

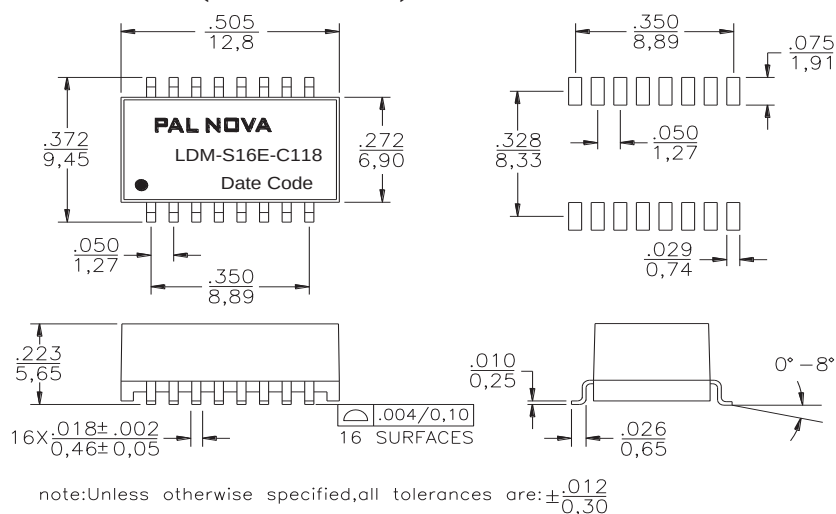
STORAGE TEMP RANGE: -55°C TO +105°C

OPERATING TEMP RANGE: -40°C TO +85°C

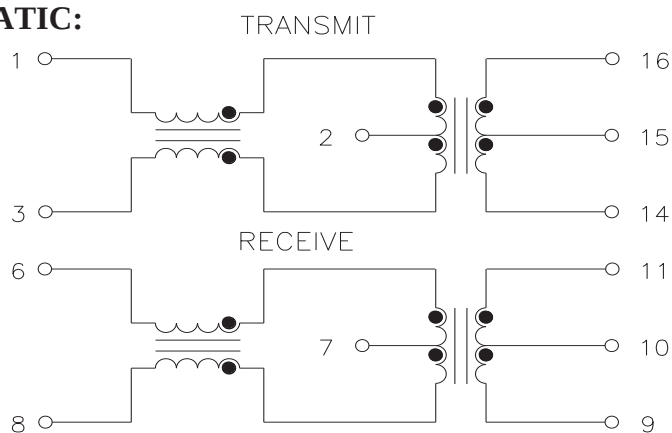
PACKAGE: 16PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S16E-C118	Page 1 of 2
PRODUCT NAME: 10/100 BASE FILTER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 PRI TO SEC : 1500V AC 1mA 6S

4.2 T/R:

TX: 1CT : 1CT

RX: 1CT : 1CT

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC.

4.4 PRI/SEC L/L : 0.5 μ H MAX @ 100KHz 100mV .

4.5 IL(TX&RX) : -1.0dB MAX

4.6 RL(TX&RX) : -18dB MIN @ 30MHz

-14dB MIN @ 60MHz

-12dB MIN @ 80MHz

4.7 CT : -35dB MIN @ 30MHz

-35dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.8 DCMR : -40dB MIN @ 30MHz

-40dB MIN @ 50MHz

-40dB MIN @ 100MHz

4.9 DCR : PRI = 0.9 Ω MAX

PRODUCT P/N: LDM-S16E-C118	Page 2 of 2
PRODUCT NAME: 10/100 BASE FILTER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S16S-C680

SPECIFICATION: 10/100 BASE TRANSFORMER

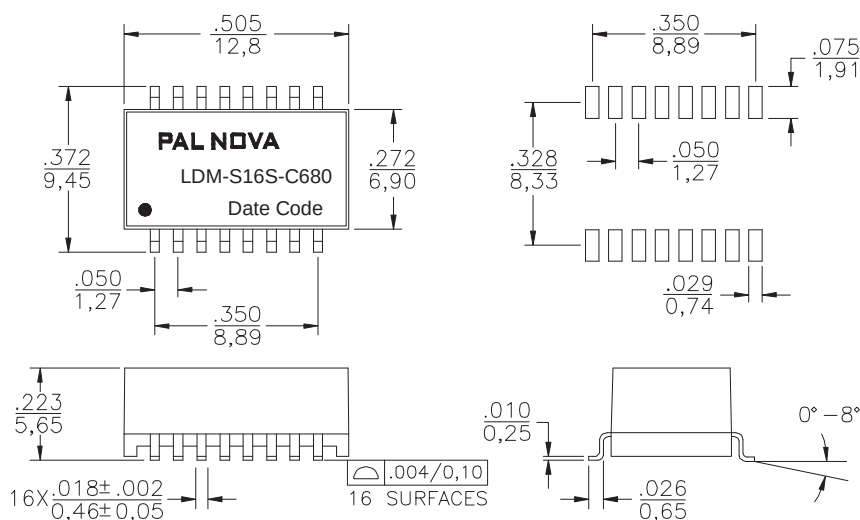
STORAGE TEMP RANGE: -20°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 16PIN SMD PROFILE PACKAGE

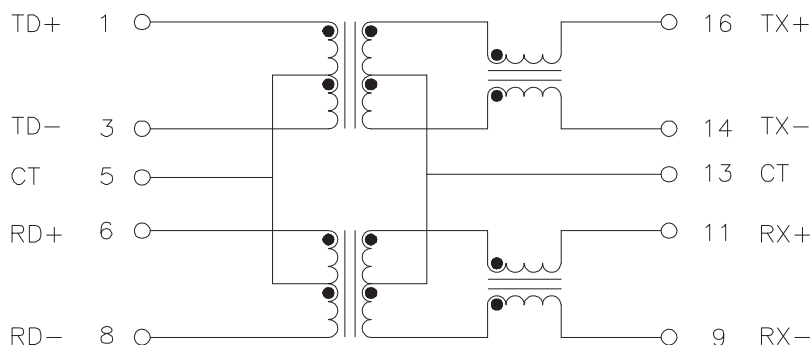
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are:± $\frac{0.012}{0,30}$

3. SCHEMATIC:



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4.ELECTRICAL SPECIFICATIONS @25°C:

- 4.1 PRI TO SEC : 1500V AC 1mA 6S
- 4.2 T/R: 100KHz 0.1V
(9-11):(8-6)=1CT : 1CT $\pm$ 3%
(14-16):(3-1)=1CT : 1CT $\pm$ 3%
- 4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC.
- 4.4 PRI LL : 0.5 μ H MAX @ 100KHz 100mV .
- 4.5 DCR : PRI = 1.2 Ω MAX
- 4.6 IL(TX&RX) : -1.15dB MAX @0.1~100MHz
- 4.7 RL(TX&RX) : -20dB MIN @ 30MHz
-14dB MIN @ 60MHz
-12dB MIN @ 80MHz
- 4.8 CT : -45dB MIN @ 30MHz
-40dB MIN @ 60MHz
-35dB MIN @ 100MHz
- 4.9 DCMR : -42dB MIN @ 30MHz
-37dB MIN @ 60MHz
-33dB MIN @ 100MHz

PRODUCT P/N: LDM-S16S-C680	Page 2 of 2
PRODUCT NAME: 10/100BASE TRANSFORMER	REV: 01-05/27/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D24S-C101

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

POE APPLICATIONS CABLE SIDE WITH 350mA CURRENT CAPABILITY

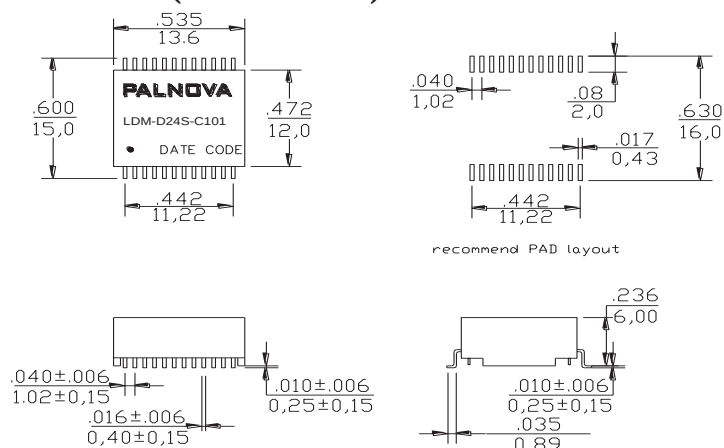
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 24PIN-1.27 SMD PROFILE PACKAGE

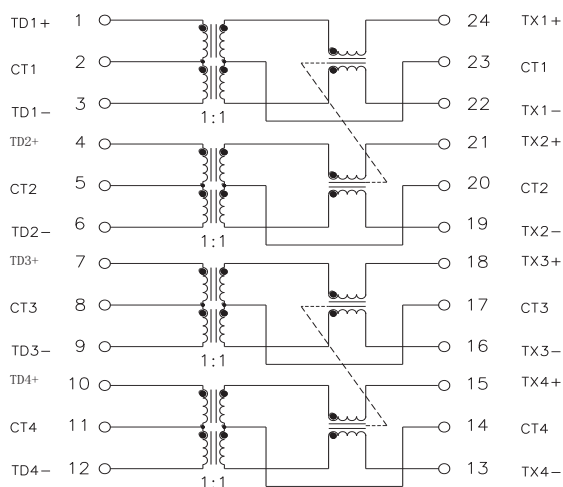
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note: Unless otherwise specified, all tolerances are: $\pm \frac{.012}{0.30}$

3.SCHEMATIC:



PRODUCT P/N: LDM-D24S-C101

Page 1 of 2

PRODUCT NAME: 10/100 BASE TRANSFORMER

REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R : 60KHz 1V

1CT : 1CT±5%

4.2 OCL

PRI OCL =350μH MIN 100KHZ 100mV 8mA DC

4.3 HI-POT

PRI TO SEC =1.5KV AC 1mA 6S

4.4 DCR : @25°C 1.2Ω MAX

4.5 LL : 100KHZ 100mV 0.5μH MAX

4.6 IL

-1.0dB MAX @ 0.1-100MHZ

4.7 RL : -20dB MIN @ 30MHZ

-14dB MIN @ 60MHZ

-12dB MIN @ 80MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-D24S-C101	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D24S-C103

SPECIFICATION: 10/100 BASE TRANSFORMER

POE APPLICATIONS CABLE SIDE WITH 350mA CURRENT CAPABILITY

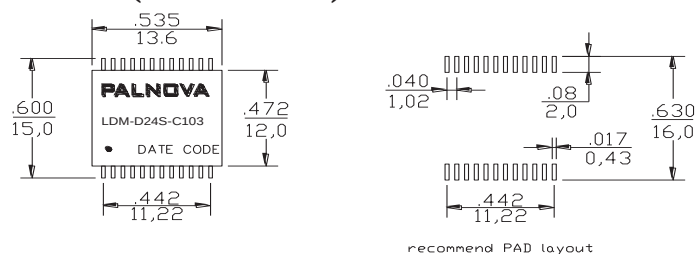
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

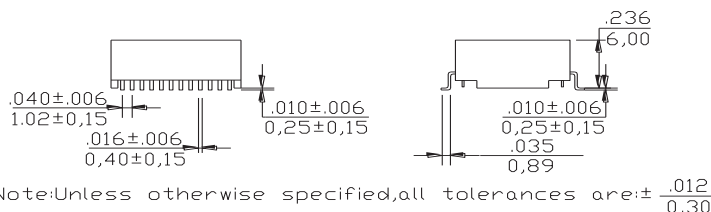
PACKAGE: 24PIN-1.02 SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):

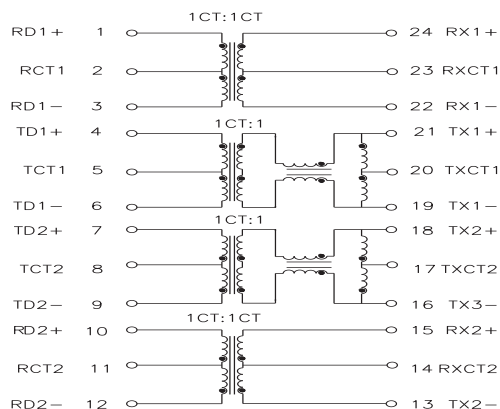


recommen PAD layout



Note:Unless otherwise specified,all tolerances are:± .012
0,30

3.SCHEMATIC:



PRODUCT P/N: LDM-D24S-C103	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R : 60KHz 1V

1CT : 1CT±5%

4.2 OCL

PRI OCL =350μH MIN 100KHZ 100mV 8mA DC

4.3 HI-POT

PRI TO SEC =1.5KV AC 1mA 6S

4.4 DCR : @25°C 1.2Ω MAX

4.5 LL : 100KHZ 100mV 0.5μH MAX

4.6 IL

-1.0dB MAX @ 0.1-100MHZ

4.7 RL : -20dB MIN @ 30MHZ

-14dB MIN @ 60MHZ

-12dB MIN @ 80MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-D24S-C103	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D24E-C207

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

POE APPLICATIONS CABLE SIDE WITH 350mA CURRENT CAPABILITY

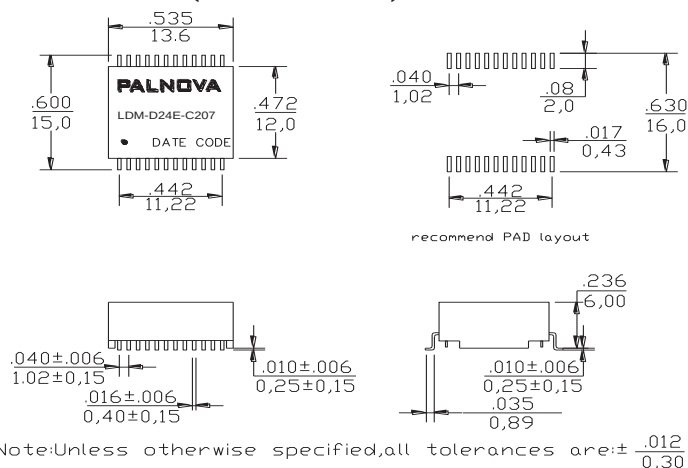
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: -40°C TO +85°C

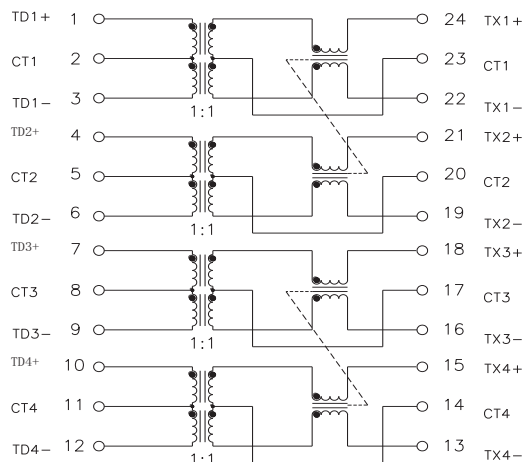
PACKAGE: 24PIN-1.02 SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3.SCHEMATIC:



PRODUCT P/N: LDM-D24E-C207	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R : 60KHz 1V

1CT : 1CT±5%

4.2 OCL

PRI OCL =350μH MIN 100KHZ 100mV 8mA DC

4.3 HI-POT

PRI TO SEC =1.5KV AC 1mA 60S

4.4 DCR : @25°C 1.2Ω MAX

4.5 LL : 100KHZ 100mV 0.5μH MAX

4.6 IL

-1.0dB MAX @ 1-100MHZ

4.7 RL : -20dB MIN @ 30MHZ

-14dB MIN @ 60MHZ

-12dB MIN @ 80MHZ

4.8 CMRR

-35dB MIN @ 1MHz -100MHz

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-D24E-C207	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D24S-C273

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

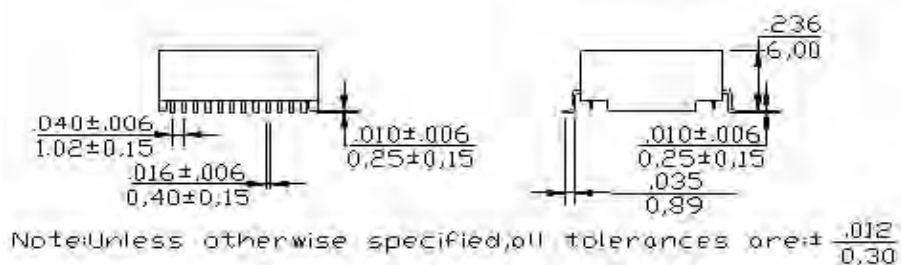
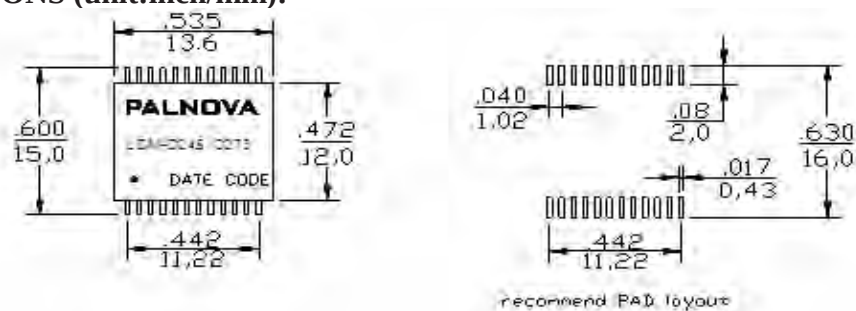
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 24PIN-1.02 SMD PROFILE PACKAGE

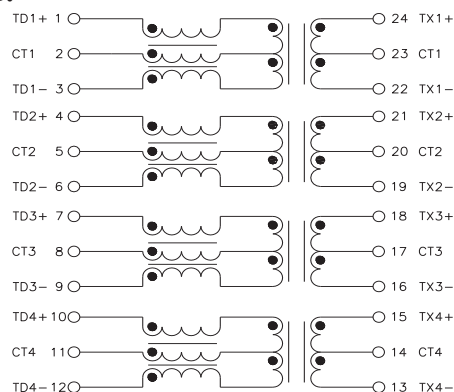
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note: Unless otherwise specified, all tolerances are: ± 0.012 (0.30 mm)

3.SCHEMATIC:



PRODUCT P/N: LDM-D24S-C273	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R : 60KHz 1V

1CT : 1CT±5%

4.2 OCL

PRI OCL =350μH MIN 100KHZ 100mV 8mA DC

4.3 HI-POT

PRI TO SEC =1.5KV AC 1mA 60S

4.4 DCR : @25°C 1.2Ω MAX

4.5 LL : 100KHZ 100mV 0.5μH MAX

4.6 IL

-1.0dB MAX @ 1-100MHZ

4.7 RL : -20dB MIN @ 30MHz

-14dB MIN @ 60MHz

-12dB MIN @ 80MHz

4.8 CMRR

-40dB MIN @ 2MHz -30MHz

-33dB MIN @60MHz

-33dB MIN @100MHz

-21.5dB MIN @200MHz

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-D24S-C273	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D48E-C278

SPECIFICATION: 10/100 BASE TRANSFORMER

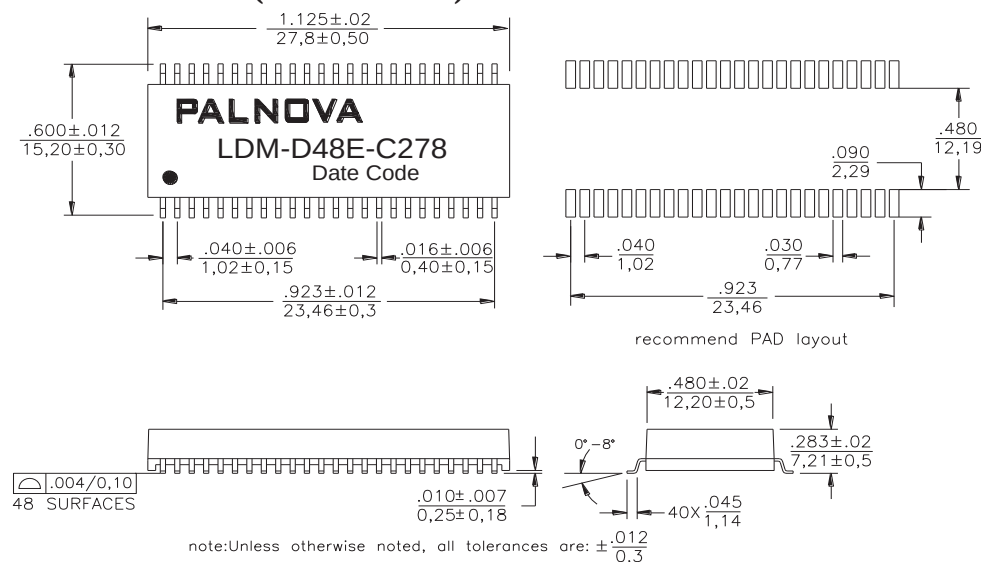
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: -40°C TO +85°C

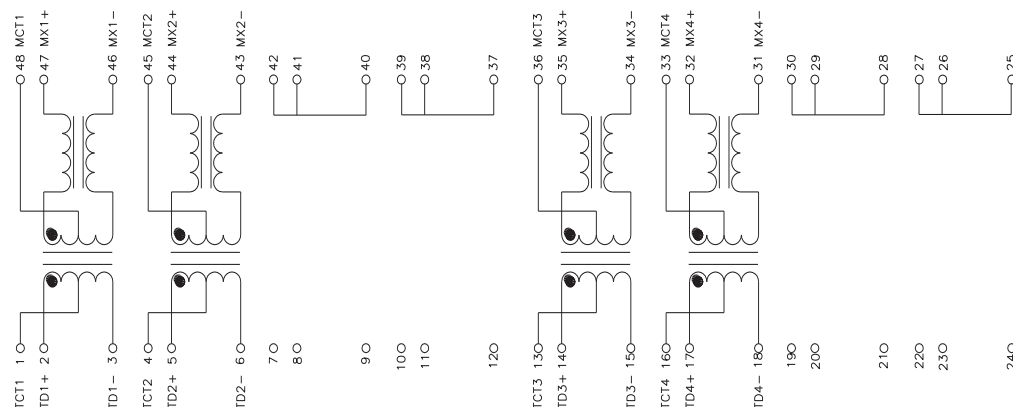
PACKAGE: 48PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D48E-C278

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PRODUCT NAME: 10/100 BASE TRANSFORMER

REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT:

PRI TO SEC : 1500V AC 1mA 60S

4.2 T/R: 60KHz 1V

1CT : 1CT $\pm$ 5%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC BIAS.

4.4 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.2 Ω MAX

4.6 IL : -1.1dB MAX @1MHz ~ 100MHz

4.7 RL: -20dB MIN @ 1MHz ~ 10MHz

-18dB MIN @ 10MHz ~ 30MHz

-14.5dB MIN @ 60MHz

-12dB MIN @80MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 CMR : -46dB MIN @ 30MHz

-42dB MIN @ 60MHz

-38dB MIN @ 100MHz

PRODUCT P/N: LDM-D48E-C278	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D40E-C280

SPECIFICATION: 10/100 BASE TRANSFORMER

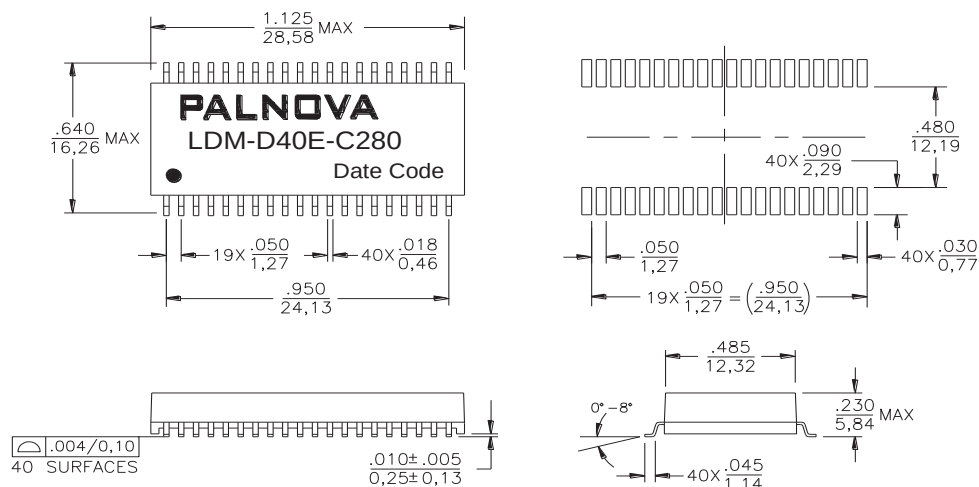
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: -40°C TO +85°C

PACKAGE: 40PIN SMD PROFILE PACKAGE

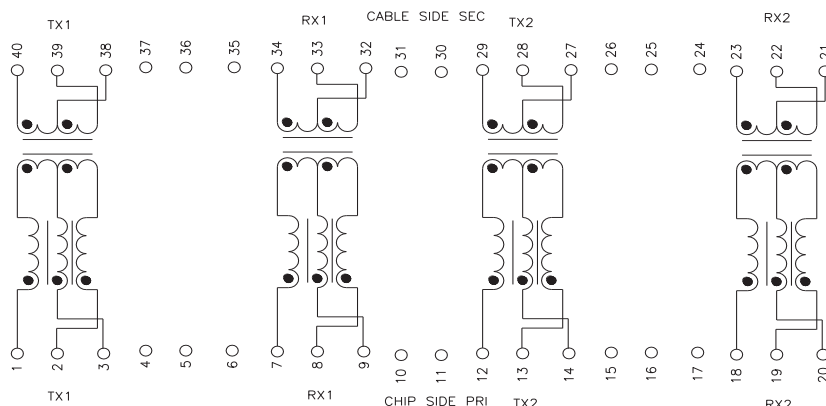
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are:±.012
0,30

3.SCHEMATIC:



PRODUCT P/N: LDM-D40E-C280	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 IL

1 - 100MHZ -1.15dB MAX

4.2 RL

1-30MHZ -18.0dB MIN

40MHZ -14.4dB MIN

50MHZ -13.1dB MIN

60-80MHZ -12.0dB MIN

4.3 CT

1MHZ -50.0dB MIN

30MHZ -43.5dB MIN

60MHZ -37.5dB MIN

100MHZ -35.0dB MIN

4.4 DCMR

30MHZ -45.0dB MIN

60MHZ -40.0dB MIN

100MHZ -35.0dB MIN

4.5 PRI OCL:350μH MIN 100KHz 100mV 8mA DC BIAS.

4.6 PRI DCR:1.5Ω MAX

4.7 Turn Ratio: 1CT:1CT±5% 60KHz 1V

4.8 HI-POT: PRI TO SEC 1500V AC 6S 1mA

4.9 LL: 0.5μH MAX 100KHz 100mV

PRODUCT P/N: LDM-D40E-C280	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-Q40S-C061

SPECIFICATION: 10/100 BASE-TX TRANSFORMER

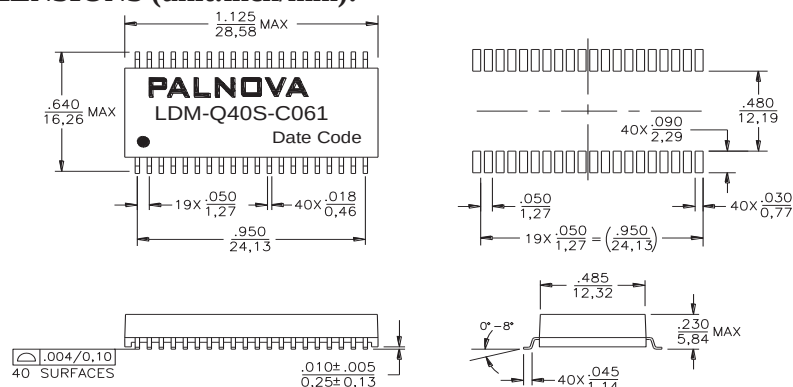
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 40PIN SMD PROFILE PACKAGE

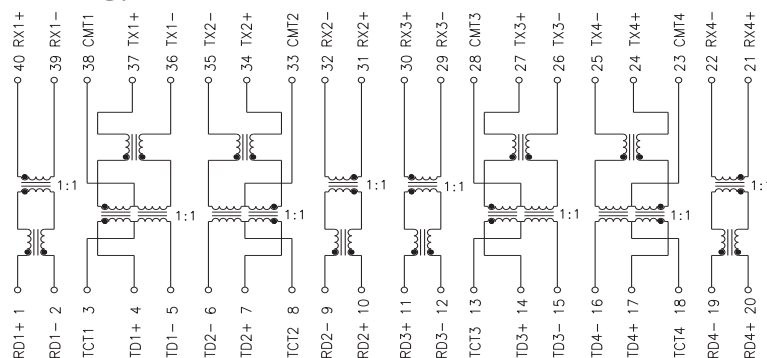
IR TEMP: 235°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are:±.012
0,30

3.SCHEMATIC:



PRODUCT P/N: LDM-Q40S-C061	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R

TX:1CT:1CT

RX: 1:1

4.2 PRI OCL 100kHz 100mV 8mA DC

TX OCL = 350 μ H MIN

RX OCL =350 μ H MIN

4.3 PRI DCR TEST TX&RX

DCR=1.5 Ω MAX

4.4 HI-POT:

PRI TO SEC = 1500VAC 1mA 6S

4.5 IL TEST TX&RX

-1.2dB MAX @ 100kHz

-1.0dB MAX @ 30MHZ

-1.0dB MAX @ 60MHZ

-1.0dB MAX @ 100MHZ

-3.0dB MAX @ 120MHZ

4.6 RL TEST TX&X

-16.0dB MIN @ 5-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12.0dB MIN @ 60-80MHZ

4.7 CT TSET

-50dB MIN @ 1MHZ

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

4.8 DCMR TEST TX

-42dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

-25dB MIN @ 200MHZ

PRODUCT P/N: LDM-Q40S-C061	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-Q40S-C116

SPECIFICATION: 10/100BASE TRANSFORMER

FOR AUTO MDI/MDIX APPLICATIONS

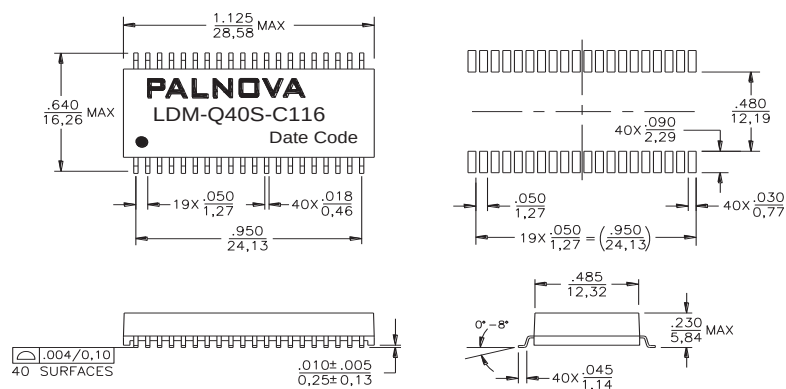
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 40PIN SMD PROFILE PACKAGE

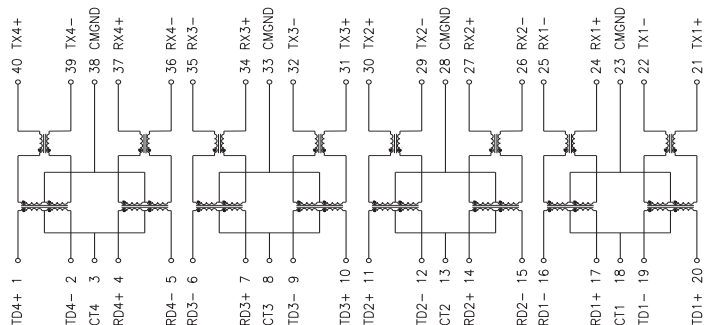
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are: $\pm \frac{0.12}{0.30}$

3.SCHEMATIC:



PRODUCT P/N: LDM-Q40S-C116

Page 1 of 2

PRODUCT NAME: 10/100 BASE TRANSFORMER

REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 IL	TX	RX
0.1MHZ	-1.2dB MAX	-1.2dB MAX
30MHZ	-1.0dB MAX	-1.0dB MAX
60MHZ	-1.0dB MAX	-1.0dB MAX
100MHZ	-1.0dB MAX	-1.0dB MAX
120MHZ	-3.0dB MAX	-3.0dB MAX
4.2 RL	TX	RX
5MHZ	-16.0dB MIN	-16.0dB MIN
30MHZ	-16.0dB MIN	-16.0dB MIN
40MHZ	-14.4dB MIN	-14.4dB MIN
50MHZ	-13.1dB MIN	-13.1dB MIN
60MHZ	-12.0dB MIN	-12.0dB MIN
80MHZ	-12.0dB MIN	-12.0dB MIN
4.3 CT		
1MHZ	-50.0dB MIN	
30MHZ	-45.0dB MIN	
60MHZ	-40.0dB MIN	
100MHZ	-35.0dB MIN	
4.4 DCMR		
30MHZ	-42.0dB MIN	
60MHZ	-37.0dB MIN	
100MHZ	-33.0dB MIN	
200MHZ	-25.0dB MIN	
4.5 PRI OCL:	TX&RX: 350μH MIN @ Idc = 8mA	
4.6 DCR:	TX&RX: 1.5Ω MAX	
4.7 Turn Ratio(±5%):	TX = 1CT:1CT RX = 1CT:1CT	
4.8 HI-POT:	PRI TO SEC 1500V AC 1mA 6S	

PRODUCT P/N: LDM-Q40S-C116	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-Q40E-C215

SPECIFICATION: 10/100BASE TRANSFORMER
FOR AUTO MDI/MDIX APPLICATIONS

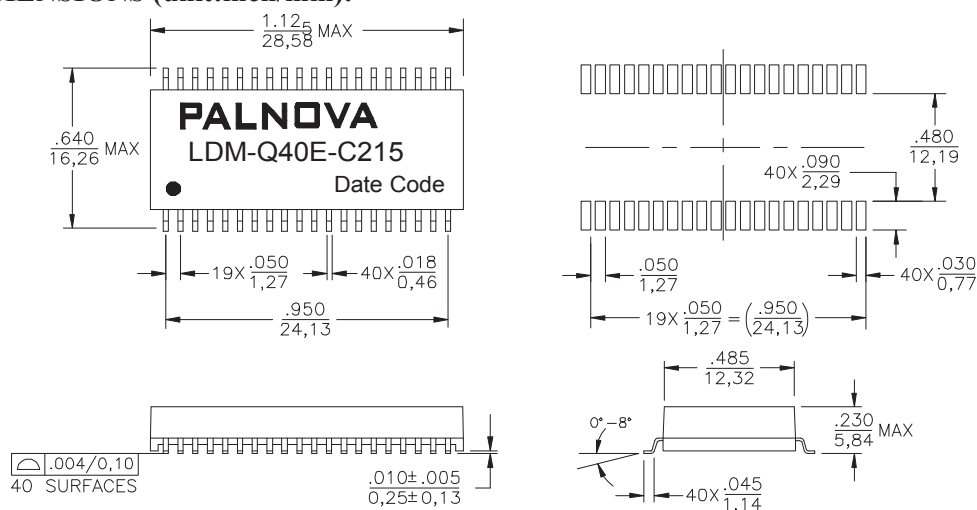
STORAGE TEMP RANGE: -40°C TO +125°C

OPERATING TEMP RANGE: -40°C TO +85°C

PACKAGE: 40PIN SMD PROFILE PACKAGE

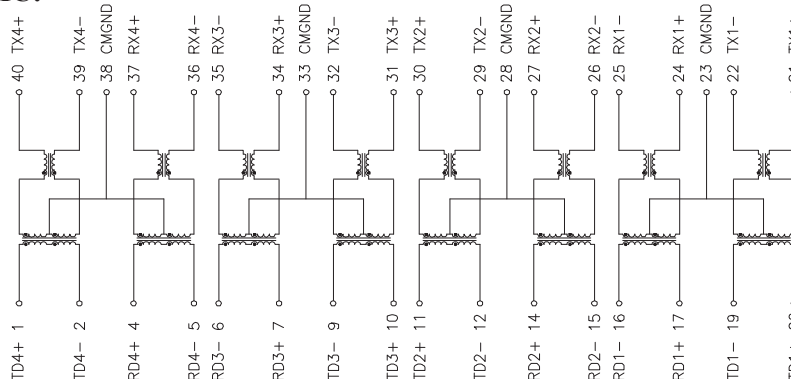
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



note:Unless otherwise specified,all tolerances are:±.012
0,30

3. SCHEMATIC:



PRODUCT P/N: LDM-Q40E-C215

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PRODUCT NAME: 10/100BASE TRANSFORMER

REV: 01-05/24/13

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4.ELECTRICAL SPECIFICATIONS @25 °C:

4.1 IL	TX	RX
0.1MHZ	-1.2dB MAX	-1.2dB MAX
30MHZ	-1.0dB MAX	-1.0dB MAX
60MHZ	-1.0dB MAX	-1.0dB MAX
100MHZ	-1.0dB MAX	-1.0dB MAX
120MHZ	-3.0dB MAX	-3.0dB MAX

4.2 RL	TX	RX
5MHZ	-16.0dB MIN	-16.0dB MIN
30MHZ	-16.0dB MIN	-16.0dB MIN
40MHZ	-14.4dB MIN	-14.4dB MIN
50MHZ	-13.1dB MIN	-13.1dB MIN
60MHZ	-12.0dB MIN	-12.0dB MIN
80MHZ	-12.0dB MIN	-12.0dB MIN

4.3 CT	
1MHZ	-50.0dB MIN
30MHZ	-45.0dB MIN
60MHZ	-40.0dB MIN
100MHZ	-35.0dB MIN

4.4 DCMR	
30MHZ	-42.0dB MIN
60MHZ	-37.0dB MIN
100MHZ	-33.0dB MIN

4.5 PRI OCL: TX&RX: 350 μ H MIN @ I_{dc} = 8mA

4.6 DCR: TX&RX: 1.5 Ω MAX

4.7 TURN RATIO($\pm$ 5%): TX = 1CT:1CT RX = 1CT:1CT

4.8 HI-POT: PRI TO SEC 1500V AC 1mA 6S

PRODUCT P/N: LDM-Q40E-C215	Page 2 of 2
PRODUCT NAME: 10/100BASE TRANSFORMER	REV: 01-05/24/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-Q48S-C026

SPECIFICATION: 10/100 BASE TRANSFORMER

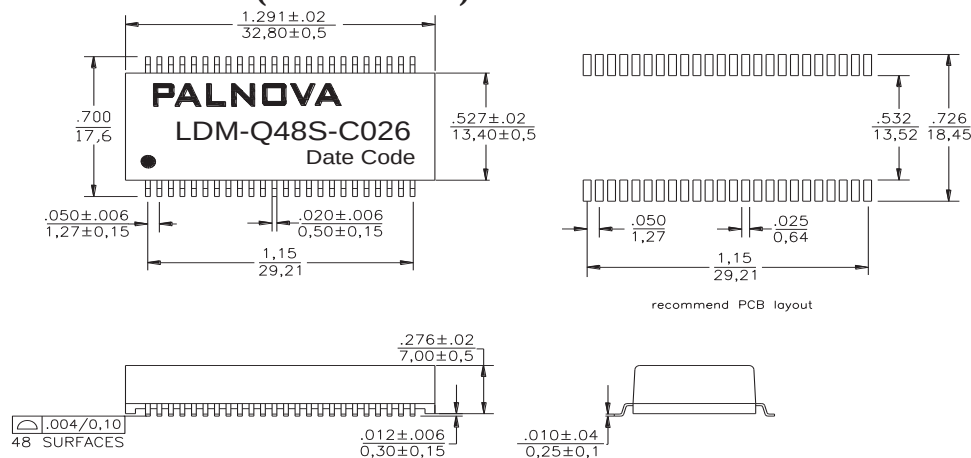
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 48PIN SMD PROFILE PACKAGE

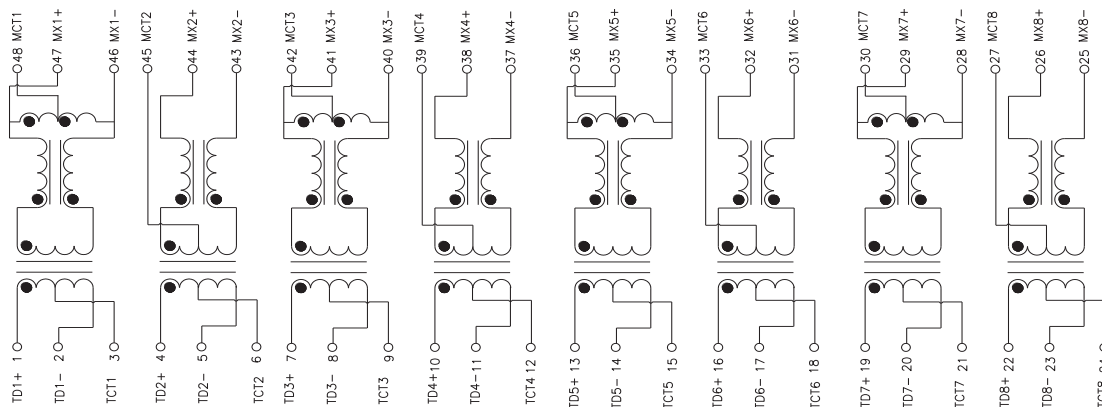
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note:Unless otherwise specified,all tolerances are:±.012
0.30

3. SCHEMATIC:



PRODUCT P/N: LDM-Q48S-C026	Page 1 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT:

PRI TO SEC : 1500V AC 1mA 60S

4.2 T/R: 60KHz 1V

TX: 1CT : 1CT $\pm$ 5%

RX: 1CT : 1CT $\pm$ 5%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC.

4.4 PRI/SEC L/L : 0.5 μ H MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.2 Ω MAX @25°C

4.6 Insertion Loss : -1.1dB MAX @1MHz ~ 100MHz

4.7 Return Loss: -20dB MIN @ 1MHz ~ 10MHz

-16dB MIN @ 10MHz ~ 30MHz

-14dB MIN @ 40MHz

-12dB MIN @ 60MHz ~ 80MHz

4.8 CT : -40dB MIN @ 30MHz

-33dB MIN @ 60MHz

-33dB MIN @ 100MHz

4.9 CMRR : -43dB MIN @ 30MHz

-37dB MIN @ 60MHz

-35dB MIN @ 100MHz

PRODUCT P/N: LDM-Q48S-C026	Page 2 of 2
PRODUCT NAME: 10/100 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24S-G060

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

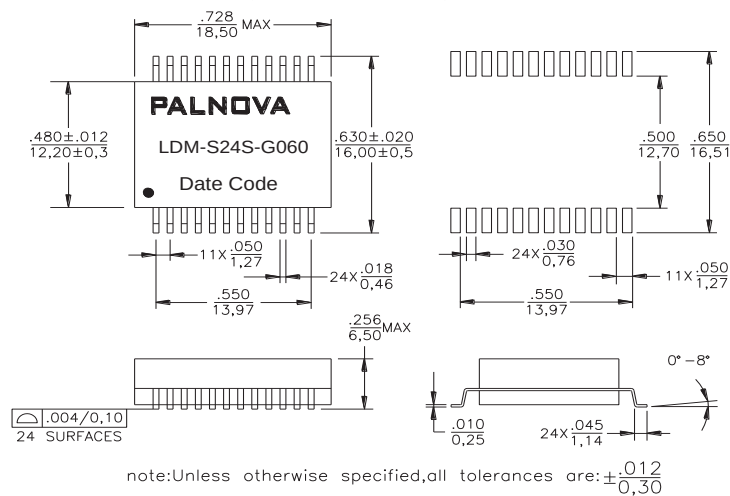
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

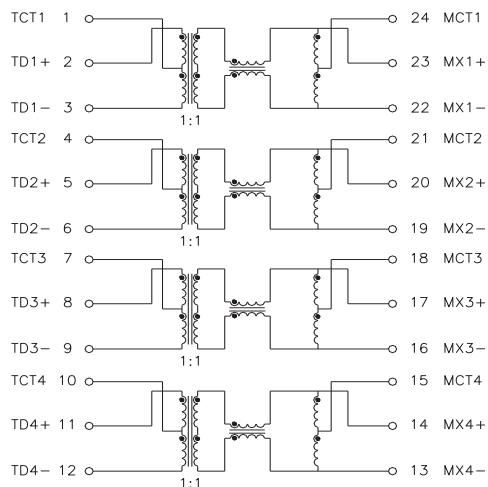
PACKAGE: 24PIN-1.27 SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S24S-G060	Page 1 of 2
PRODUCT NAME: 10/100/1000 BASE TRANSFORMER	REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 T/R : 60KHz 1V

1CT : 1CT $\pm$ 5%

4.2 OCL

PRI OCL = 350 μ H MIN 100KHZ 100mV 8mA DC

4.3 HI-POT

PRI TO SEC = 1500V AC 1mA 6S

4.4 DCR : @25°C 1.2 Ω MAX

4.5 LL : 100KHZ 100mV 0.5 μ H MAX

4.6 IL

-1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 60-80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24S-G060	Page 2 of 2
PRODUCT NAME: 10/100/1000 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24S-G302

SPECIFICATION: 100/1000 BASE TRANSFORMER

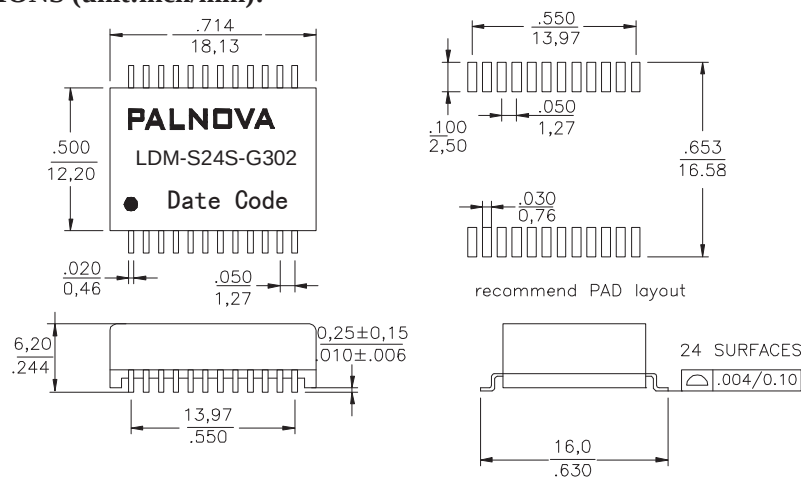
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 24PIN-1.27 SMD PROFILE PACKAGE

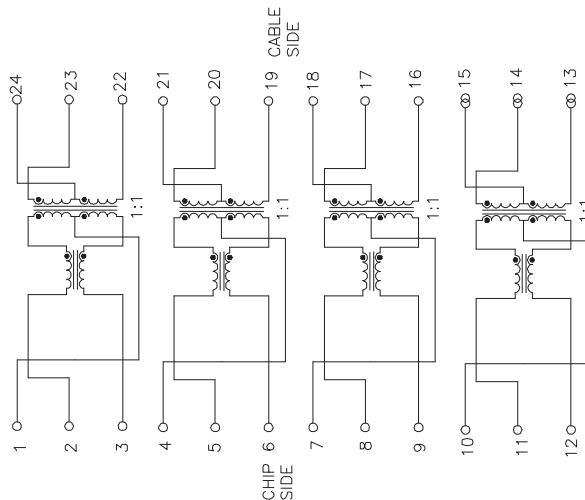
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note:Unless otherwise specified ,all tolerances are: $\pm \frac{.012}{0,3}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S24S-G302	Page 1 of 2
PRODUCT NAME: 100/1000 BASE TRANSFORMER	REV: 01-01/29/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT

PRI TO SEC =4000V DC 1mA 6S

4.2 OCL:

PRI OCL =350 μ H MIN 100KHz 100mV 8mA DC BIAS.

4.3 T/R:

PRI:SEC=1CT : 1CT($\pm$ 3%)

4.4 DCR : PRI = 1.2 Ω MAX

4.5 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.6 IL: -1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24S-G302	Page 2 of 2
PRODUCT NAME: 100/1000 BASE TRANSFORMER	REV: 01-01/29/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24E-G332

SPECIFICATION: 100/1000 BASE TRANSFORMER

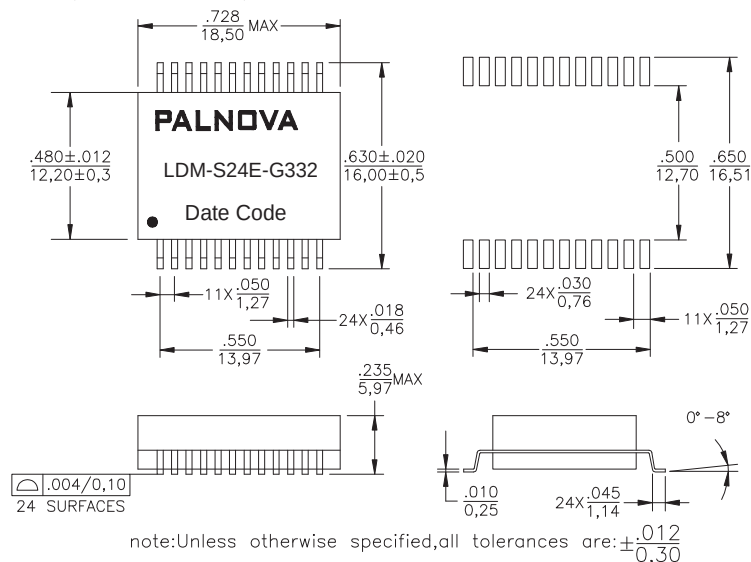
STORAGE TEMP RANGE: -40°C TO +125°C

OPERATING TEMP RANGE: -40°C TO +85°C

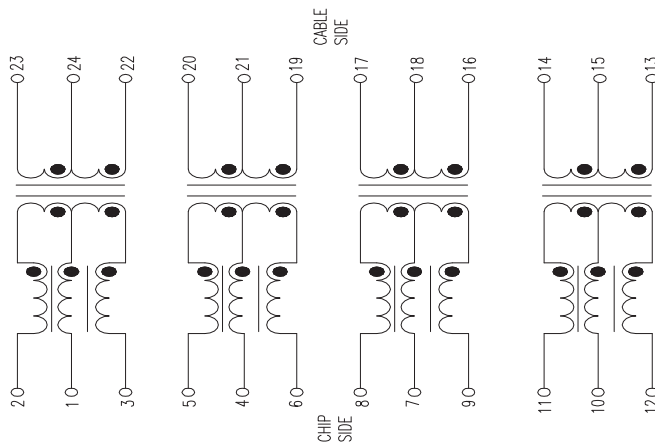
PACKAGE: 24PIN-1.27 SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-S24E-G332

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PRODUCT NAME: 100/1000 BASE TRANSFORMER

REV: 01-04/10/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT

PRI TO SEC =1500V AC 1mA 6S

4.2 OCL: 100KHz 100mV, WITH 8mA

PRI OCL =350 μ H MIN 100KHz 100mV 8mA DC BIAS.

4.3 T/R:($\pm$ 5%)60KHz 1V

1CT : 1CT

4.4 DCR : PRI = 1.2 Ω MAX

4.5 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.6 IL: -1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 60-80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24E-G332	Page 2 of 2
PRODUCT NAME: 100/1000 BASE TRANSFORMER	REV: 01-04/10/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24E-G547

SPECIFICATION: SINGLE PORT GIGABIT TRANSFORMER

COMPLIANT WITH IEEE 802.3 AND ANSI X3.263 STANDARDS.

STORAGE TEMP RANGE: -25°C TO +125°C

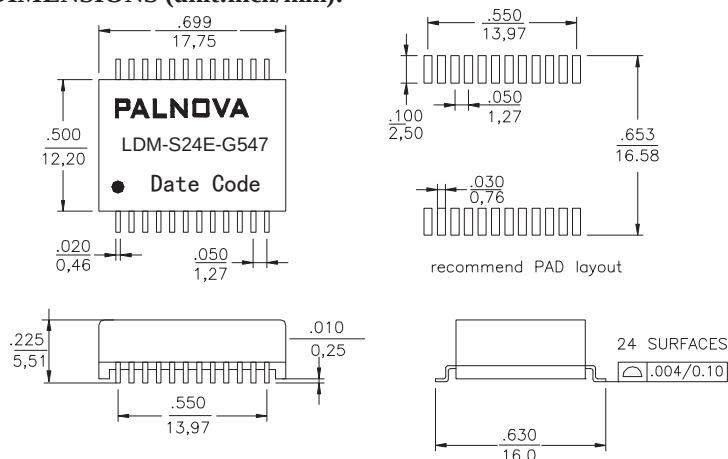
OPERATING TEMP RANGE: -40°C TO +85°C

PACKAGE: USING UL94V-0 RATED MATERIAL 24PIN-1.27 SMD PROFILE PACKAGE

TAPE AND REEL PACKAGING STANDARD.

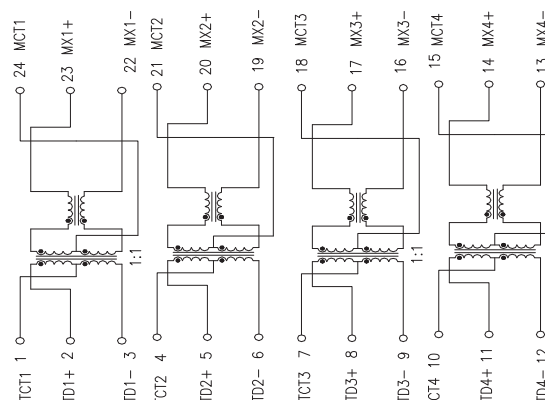
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note:Unless otherwise specified ,all tolerances are: $\pm \frac{.012}{0.3}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S24E-G547	Page 1 of 2
PRODUCT NAME: SINGLE PORT GIGABIT TRANSFORMER	REV: 01-03/26/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT

PRI TO SEC =1500V AC 1mA 6S

4.2 OCL:

PRI OCL =350μH MIN 100KHz 100mV 8mA DC BIAS.

4.3 T/R:(±5%)

1CT : 1CT

4.4 DCR : PRI = 1.2Ω MAX

4.5 LL : 0.5μH MAX @ 100KHz 100mV .

4.6 IL: -1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 60-80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24E-G547	Page 2 of 2
PRODUCT NAME: SINGLE PORT GIGABIT TRANSFORMER	REV: 01-03/26/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24E-G650

SPECIFICATION: SINGLE PORT GIGABIT TRANSFORMER

COMPLIANT WITH IEEE 802.3at AND ANSI X3.263 STANDARDS.

POE APPLICATIONS CABLE SIDE WITH 750mA CURRENT CAPABILITY

STORAGE TEMP RANGE: -40°C TO +125°C

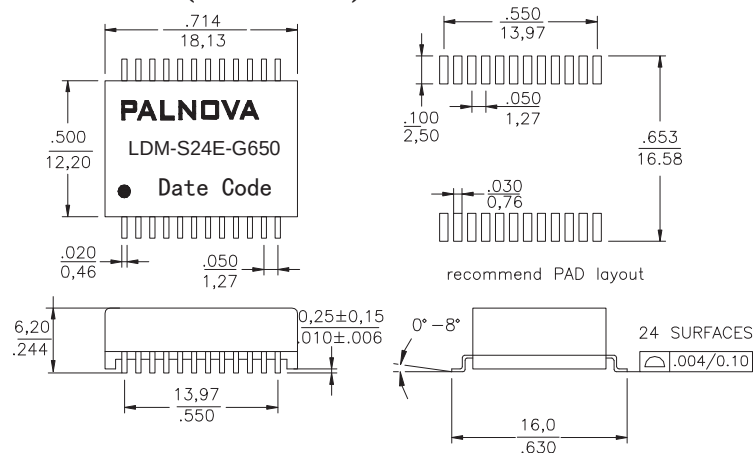
OPERATING TEMP RANGE: -40°C TO +85°C

PACKAGE: USING UL94V-0 RATED MATERIAL 24PIN-1.27 SMD PROFILE PACKAGE

TAPE AND REEL PACKAGING STANDARD.

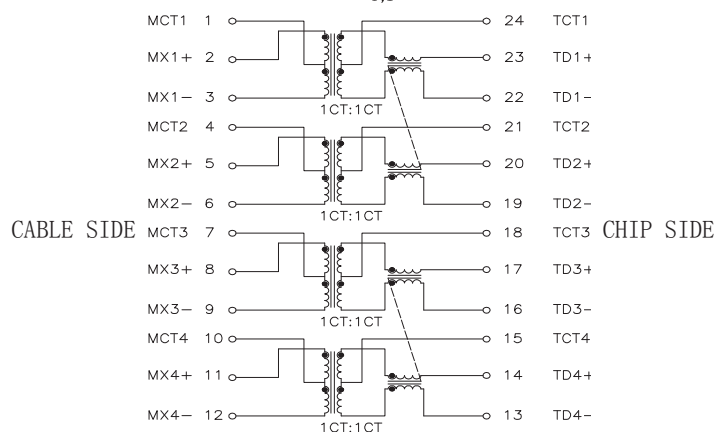
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note: Unless otherwise specified, all tolerances are: $\pm \frac{0.12}{0.3}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S24E-G650	Page 1 of 2
PRODUCT NAME: SINGLE PORT GIGABIT PoE TRANSFORMER	REV: 01-04/16/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT

PRI TO SEC =1500V AC 1mA 6S

4.2 OCL: 100KHz 100mV, WITH 8mA

PRI OCL =350μH MIN 100KHz 100mV 8mA DC BIAS.

4.3 T/R:(±5%)

1CT : 1CT

4.4 DCR : PRI = 1.2Ω MAX

4.5 LL : 0.5μH MAX @ 100KHz 100mV .

4.6 IL: -1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 60-80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24E-G650	Page 2 of 2
PRODUCT NAME: SINGLE PORT GIGABIT PoE TRANSFORMER	REV: 01-04/16/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24S-G726

SPECIFICATION: 100/1000 BASE TRANSFORMER

POE APPLICATIONS WITH 350mA CURRENT CAPABILITY

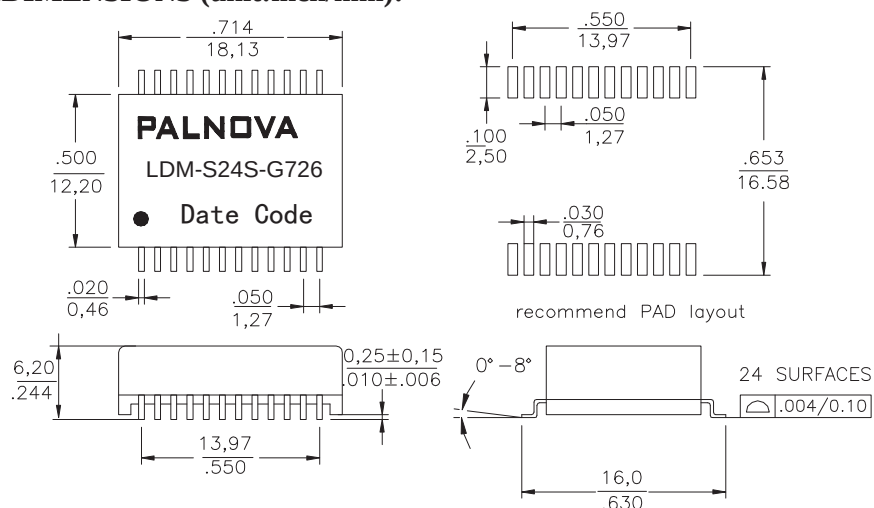
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

PACKAGE: 24PIN-1.27 SMD PROFILE PACKAGE

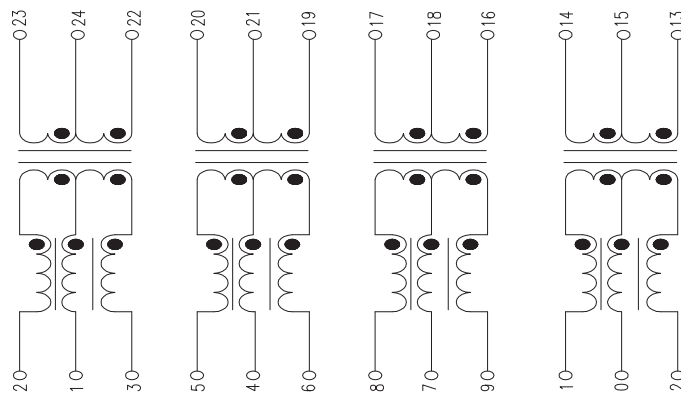
IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



Note: Unless otherwise specified, all tolerances are: $\pm \frac{.012}{0.3}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S24S-G726

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PRODUCT NAME: 100/1000BASE TRANSFORMER

REV: 01-04/26/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT

PRI TO SEC =1500V AC 1mA 6S

4.2 OCL: 100KHz 100mV, WITH 8mA

PRI OCL =350 μ H MIN 100KHz 100mV 8mA DC BIAS.

4.3 T/R:($\pm$ 5%) 60KHz 1V

1CT : 1CT

4.4 DCR : PRI = 1.2 Ω MAX

4.5 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.6 IL: -1.0dB MAX @ 1-100MHZ

4.7 RL

-18dB MIN @ 1-30MHZ

-14.4dB MIN @ 40MHZ

-13.1dB MIN @ 50MHZ

-12dB MIN @ 60-80MHZ

-10dB MIN @ 100MHZ

4.8 DCMR

-43dB MIN @ 30MHZ

-37dB MIN @ 60MHZ

-33dB MIN @ 100MHZ

4.9 CT

-45dB MIN @ 30MHZ

-40dB MIN @ 60MHZ

-35dB MIN @ 100MHZ

PRODUCT P/N: LDM-S24S-G726	Page 2 of 2
PRODUCT NAME: 100/1000BASE TRANSFORMER	REV: 01-04/26/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-S24S-G860

SPECIFICATION: 100/1000 BASE TRANSFORMER

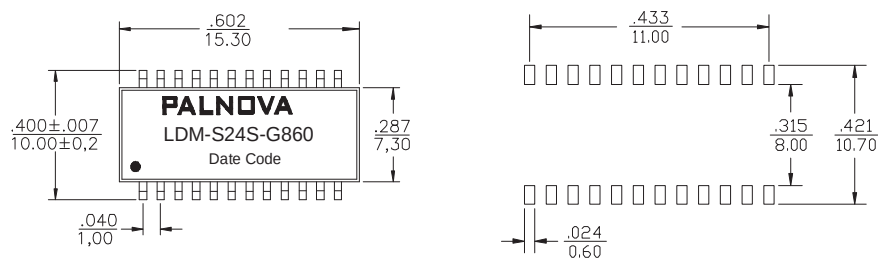
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMPRANGE: 0°C TO +70°C

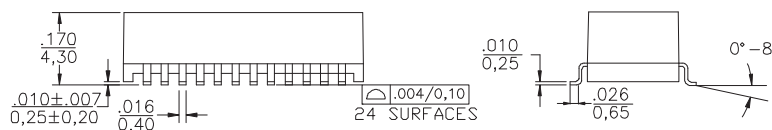
PACKAGE: 24PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):

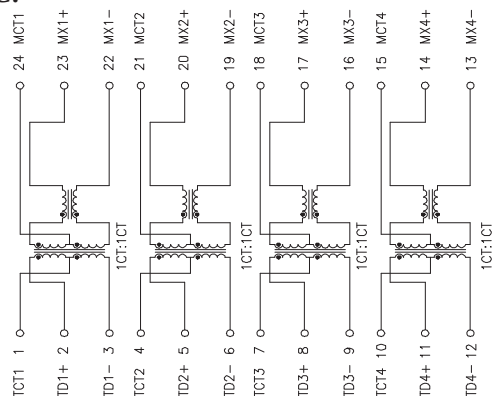


RECOMMENDED PAD LAYOUT



Note: Unless otherwise specified,all tolerances are:± $\frac{.012}{0,3}$

3. SCHEMATIC:



PRODUCT P/N: LDM-S24S-G860

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PRODUCT NAME: 100/1000BASE TRANSFORMER

REV: 01-09/8/14

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 PRI TO SEC : 1200V AC 1mA 6S

4.2 T/R:

1CT : 1CT $\pm$ 3%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC Bias.

4.4 PRI/SEC L/L : 0.5 μ H MAX @ 100KHz 100mV .

4.5 DCR : PRI = 1.2 Ω MAX 25°C

4.6 IL : -1.15dB MAX @0.1~100MHz

4.7 RL : -20dB MIN @ 30MHz

-14dB MIN @ 60MHz

-12dB MIN @ 80MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 DCMR : -42dB MIN @ 30MHz

-37dB MIN @ 60MHz

-33dB MIN @ 100MHz

PRODUCT P/N: LDM-S24S-G860	Page 2 of 2
PRODUCT NAME: 100/1000BASE TRANSFORMER	REV: 01-09/8/14

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D48S-G134

SPECIFICATION: 100/1000 BASE TRANSFORMER

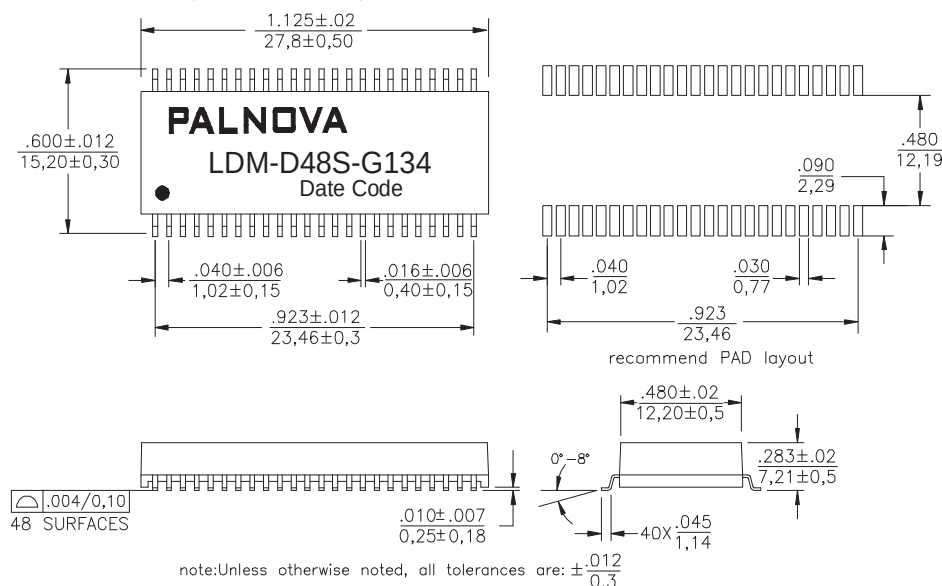
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

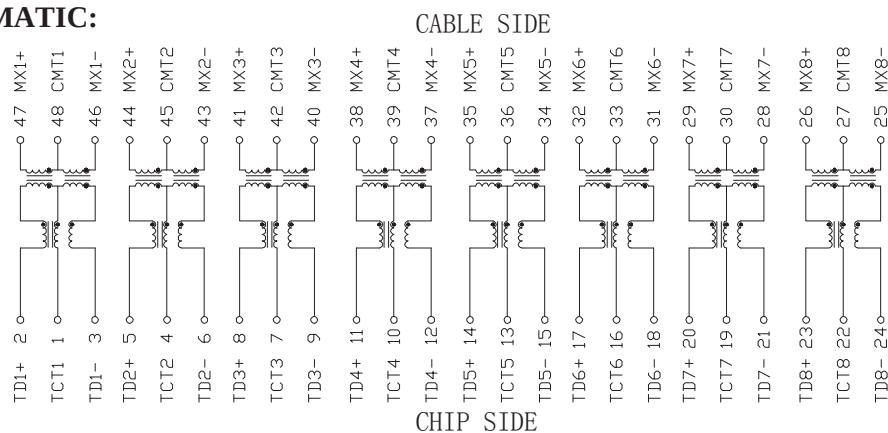
PACKAGE: 48PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D48S-G134

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PRODUCT NAME: 100/1000 BASE TRANSFORMER

REV: 01-02/2013

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT:

PRI TO SEC : 1500V AC 1mA 6S

4.2 T/R:1CT : 1CT±3%

4.3 PRI OCL : 350μH MIN @ 100KHz 100mV 8mA DC BIAS.

4.4 LL : 0.5μH MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.5Ω MAX

4.6 IL : -1.1dB MAX @1MHz ~ 100MHz

4.7 RL: -20dB MIN @ 1MHz ~ 10MHz

-18dB MIN @ 10MHz ~ 30MHz

-14.5dB MIN @ 60MHz

-12dB MIN @80MHz

-10dB MIN @100MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 CMRR : -43dB MIN @ 30MHz

-37dB MIN @ 60MHz

-33dB MIN @ 100MHz

PRODUCT P/N: LDM-D48S-G134	Page 2 of 2
PRODUCT NAME: 100/1000 BASE TRANSFORMER	REV: 01-02/20/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D48S-G167

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

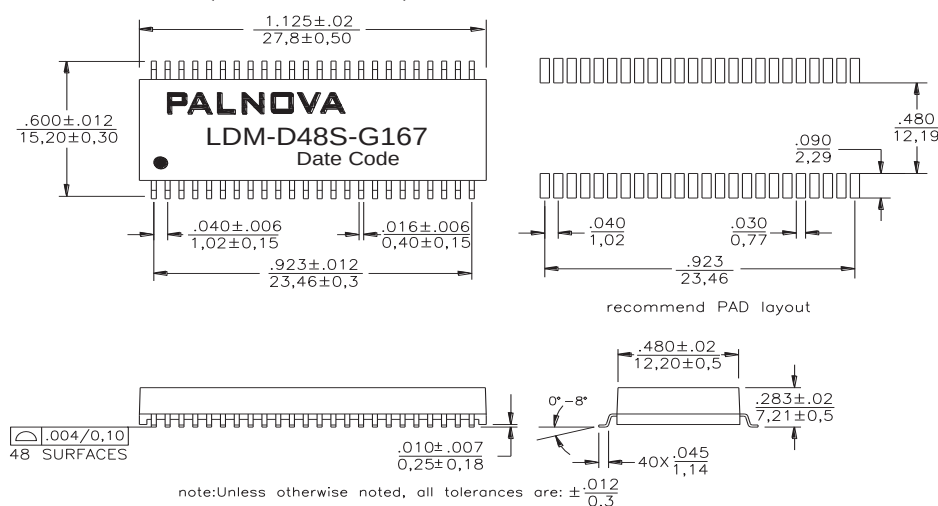
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

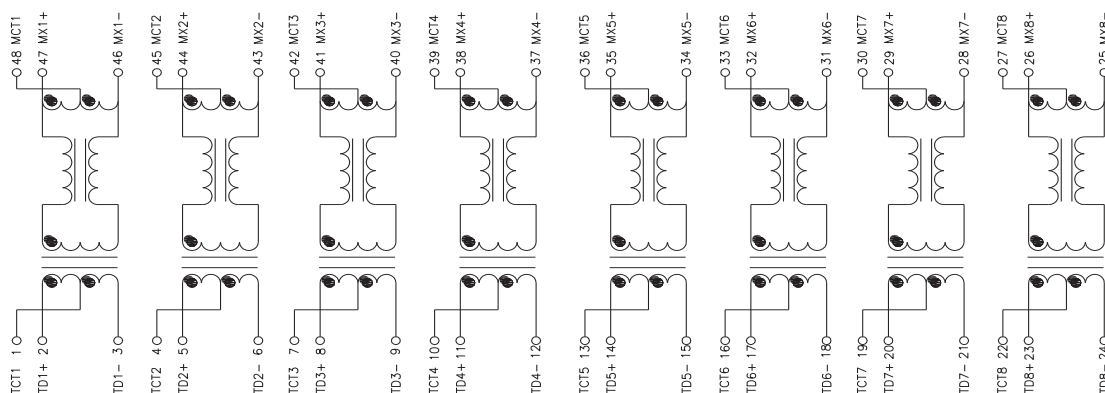
PACKAGE: 48PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D48S-G167

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PRODUCT NAME: 10/100/1000 BASE TRANSFORMER

REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT:

PRI TO SEC : 1500V AC 1mA 6S

4.2 T/R: 60KHz 1V

1CT : 1CT $\pm$ 5%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC BIAS.

4.4 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.2 Ω MAX

4.6 IL : -1.1dB MAX @1MHz ~ 100MHz

4.7 RL: -20dB MIN @ 1MHz ~ 10MHz

-18dB MIN @ 10MHz ~ 30MHz

-14.5dB MIN @ 60MHz

-12dB MIN @80MHz

-10dB MIN @100MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 CMR : -46dB MIN @ 30MHz

-42dB MIN @ 60MHz

-38dB MIN @ 100MHz

PRODUCT P/N: LDM-D48S-G167	Page 2 of 2
PRODUCT NAME: 10/100/1000 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D48S-G168

SPECIFICATION: 10/100/1000 BASE TRANSFORMER

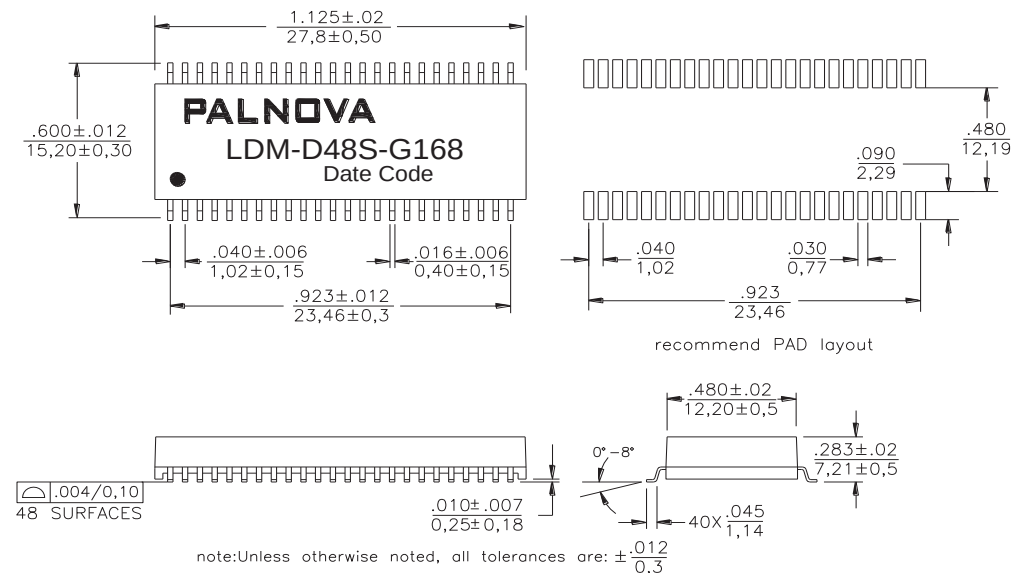
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

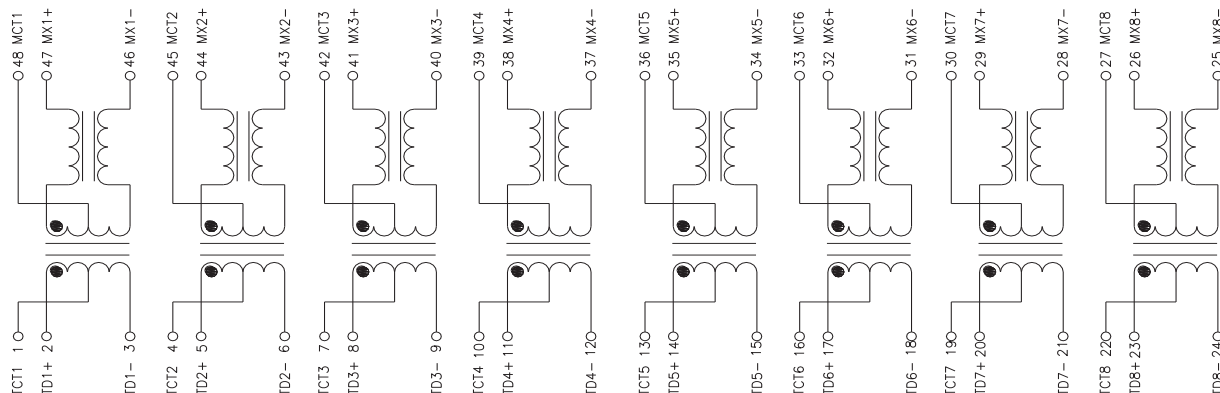
PACKAGE: 48PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D48S-G168

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PRODUCT NAME: 10/100/1000 BASE TRANSFORMER

REV: 01-01/17/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

4.1 HI-POT:

PRI TO SEC : 1500V AC 1mA 6S

4.2 T/R: 60KHz 1V

1CT : 1CT $\pm$ 5%

4.3 PRI OCL : 350 μ H MIN @ 100KHz 100mV 8mA DC BIAS.

4.4 LL : 0.5 μ H MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.2 Ω MAX

4.6 IL : -1.1dB MAX @1MHz ~ 100MHz

4.7 RL: -20dB MIN @ 1MHz ~ 10MHz

-18dB MIN @ 10MHz ~ 30MHz

-14.5dB MIN @ 60MHz

-12dB MIN @80MHz

-10dB MIN @100MHz

4.8 CT : -45dB MIN @ 30MHz

-40dB MIN @ 60MHz

-35dB MIN @ 100MHz

4.9 CMR : -46dB MIN @ 30MHz

-42dB MIN @ 60MHz

-38dB MIN @ 100MHz

PRODUCT P/N: LDM-D48S-G168	Page 2 of 2
PRODUCT NAME: 10/100/1000 BASE TRANSFORMER	REV: 01-01/17/13

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1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D50S-G182

SPECIFICATION: 1000 BASE-T TRANSFORMER

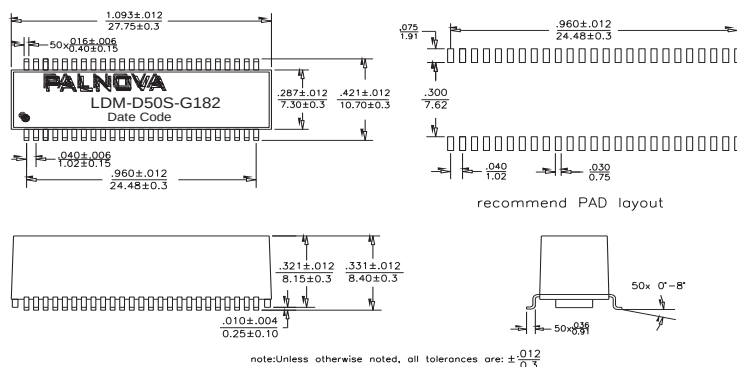
STORAGE TEMP RANGE: -25°C TO +125°C

OPERATING TEMP RANGE: 0°C TO +70°C

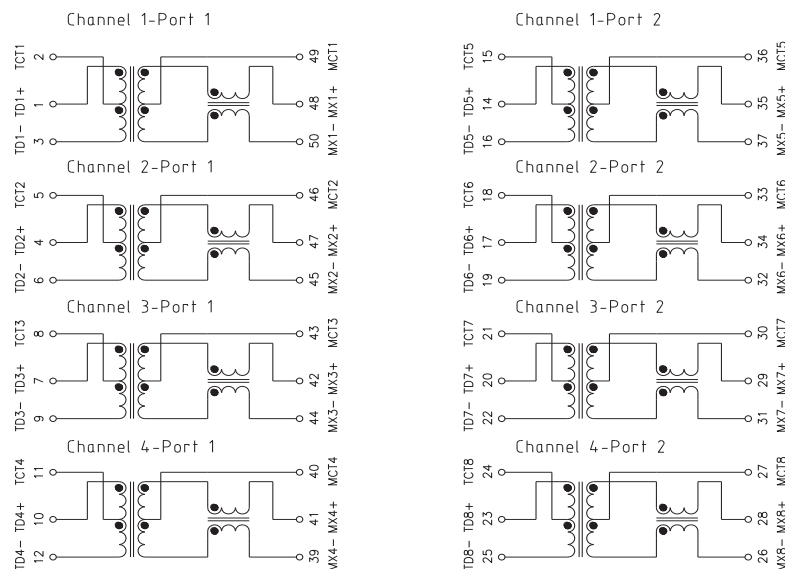
PACKAGE: 50PIN SMD PROFILE PACKAGE

IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D50S-G182

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PRODUCT NAME: 10/100/1000 BASE TRANSFORMER

REV: 01-01/17/13

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4.0 ELECTRICAL SPECIFICATIONS @25°C:

4.1 IL

1~100MHZ 1.0dB MAX

4.2 T/R: 100KHz 1V

1CT : 1CT ±5%

4.3 PRI OCL : 350μH MIN @ 100KHz 100mV 8mA DC BIAS.

4.4 LL : 0.5μH MAX @ 100KHz 100mV .

4.5. DCR : PRI = 1.2Ω MAX

4.6 CT

30MHZ -40dB MIN

60MHZ -33dB MIN

100MHZ -28dB MIN

4.7 DCMR

30MHZ -40dB MIN

60MHZ -35dB MIN

100MHZ -30dB MIN

4.8 HI-POT:

PRI TO SEC 1500Vrms AC 1mA 6S

4.9 RL

1~30MHZ -18dB MIN

40MHZ -14.4dB MIN

50MHZ -13.1dB MIN

60~80MHZ -12.0dB MIN

100MHZ -10dB MIN

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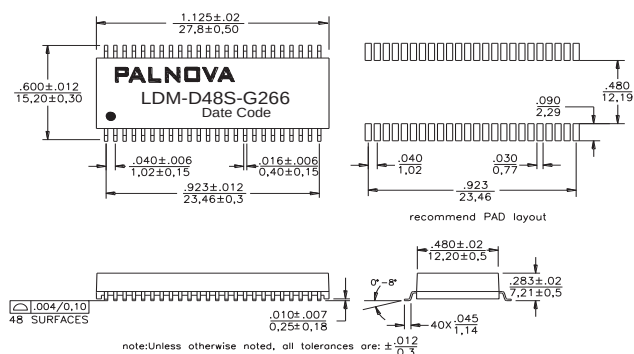
<http://www.palnova.com>



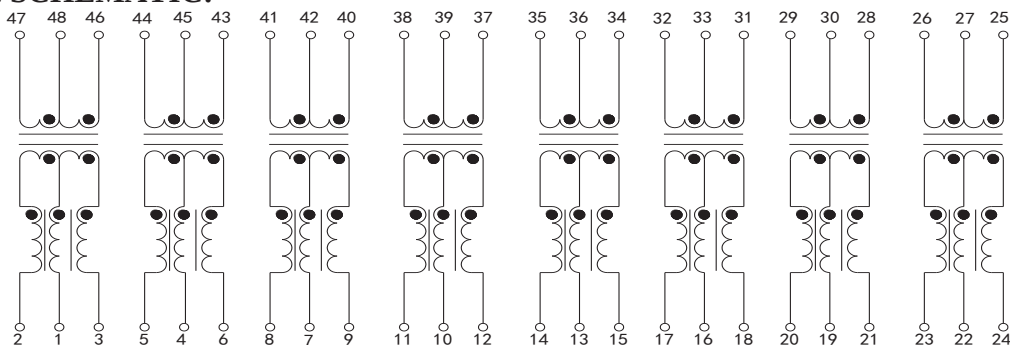
1.GENERAL SPECIFICATION:

PART NUMBER: LDM-D48S-G266
 SPECIFICATION:100/1000 BASE TRANSFORMER
 POE APPLICATIONS WITH 350mA CURRENT CAPABILITY
 STORAGE TEMP RANGE: -25°C TO +125°C
 OPERATING TEMP RANGE: 0°C TO +70°C
 PACKAGE: 48PIN SMD PROFILE PACKAGE
 IR TEMP: 260°C MAX

2.DIMENSIONS (unit:inch/mm):



3. SCHEMATIC:



PRODUCT P/N: LDM-D48S-G266

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PRODUCT NAME: 100/1000BASE TRANSFORMER

REV: 01-04/26/13

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4.ELECTRICAL SPECIFICATIONS @25°C:

- 4.1 HI-POT: PRI TO SEC 1500V AC 6S 1mA
- 4.2 PRI DCR:1.2Ω MAX
- 4.3 T/R: 1CT:1CT±5%
- 4.4 PRI OCL:350μH MIN, 100KHz 100mV 8mA DC BIAS.
- 4.5 LL: 100KHz 100mV 0.5μH MAX
- 4.6 IL
 - 1 - 100MHz -1.1dB MAX
- 4.7 RL
 - 1-30MHZ -18.0dB MIN
 - 40MHZ -14.4dB MIN
 - 50MHZ -13.1dB MIN
 - 60-80MHZ -12.0dB MIN
 - 100MHZ -10.0dB MIN
- 4.8 CT
 - 30MHZ -43.5dB MIN
 - 60MHZ -37.5dB MIN
 - 100MHZ -33.0dB MIN
- 4.9 CMRR
 - 0.5~100MHZ -30.0dB MIN

PRODUCT P/N: LDM-D48S-G266	Page 2 of 2
PRODUCT NAME: 100/1000BASE TRANSFORMER	REV: 01-04/26/13

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For more information regarding samples please visit www.palpilot.com

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