



	PAA150	Units
Load Voltage	250	V
Load Current	250	mA
Max R _{ON}	7	Ω

Description

PAA150 is a 250V, 250mA, 7Ω 2-Form-A relay. This performance leader provides a more cost effective solution where very low on-resistance is required but enhanced peak load voltage is not required.

Features

- Small 8 Pin DIP Package
- Low Drive Power Requirements (TTL/CMOS Compatible)
- No Moving Parts
- High Reliability
- Arc-Free With No Snubbing Circuits
- 3750V_{RMS} Input/Output Isolation
- FCC Compatible
- VDE Compatible
- No EMI/RFI Generation
- Machine Insertable, Wave Solderable
- Surface Mount and Tape & Reel Versions Available

Applications

- Telecommunications
 - Telecom Switching
 - Tip/Ring Circuits
 - Modem Switching (Laptop, Notebook, Pocket Size)
 - Hookswitch
 - Dial Pulsing
 - Ground Start
 - Ringer Injection
- Instrumentation
 - Multiplexers
 - Data Acquisition
 - Electronic Switching
 - I/O Subsystems
 - Meters (Watt-Hour, Water, Gas)
- Medical Equipment-Patient/Equipment Isolation
- Security
- Aerospace
- Industrial Controls

Approvals

- UL Recognized: File Number E76270
- CSA Certified: File Number LR 43639-10
- BSI Certified:
 - BS EN 60950:1992 (BS7002:1992) Certificate #:7344
 - BS EN 41003:1993 Certificate #:7344

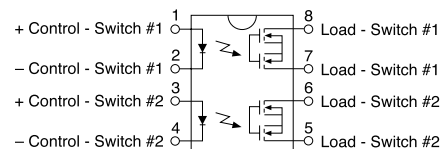
Ordering Information

Part #	Description
PAA150	8 Pin DIP (50/Tube)
PAA150P	8 Pin Flatpack (50/Tube)
PAA150PTR	8 Pin Flatpack (1000/Reel)
PAA150S	8 Pin Surface Mount (50/Tube)
PAA150STR	8 Pin Surface Mount (1000/Reel)

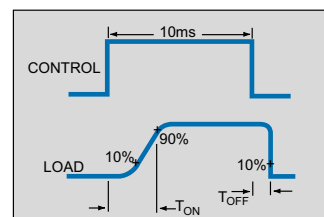
Pin Configuration

PAA150 Pinout

AC/DC Configuration



Switching Characteristics of Normally Open (Form A) Devices



Absolute Maximum Ratings (@ 25° C)

Parameter	Min	Typ	Max	Units
I P D	-	-	150 ¹	W
I C C	-	-	50	A
P (10)	-	-	1	A
R I V	-	-	5	V
T P D	-	-	800 ²	W
I V				
I O	3750	-	-	V _{RMS}
O T	-40	-	+85	°C
S T	-40	-	+125	°C
S T	-	-	-	-
DIP P	-	-	+260	°C
F /S M P	-	-	+220	°C
(10S M .)				

Absolute Maximum Ratings are stress ratings. Functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this data sheet is not implied. Exposure of the device to the absolute maximum ratings for an extended period may degrade the device and effect its reliability.

¹ D L 1.33 /°C
² D L 667 /°C

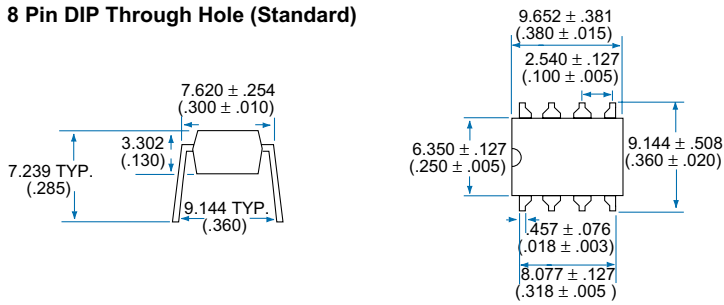
Electrical Characteristics

PARAMETER	CONDITIONS	SYMBOL	MIN	TYP	MAX	UNITS
Output Characteristics @ 25° C						
L V (P)	-	V _L	-	-	250	V
L C * (C)	-	I _L	-	-	250	A
AC/DC C	-	I _{LPK}	-	-	500	A
P L C	10					
O -R	I _L =250 A	R _{ON}	-	-	7	Ω
AC/DC C	V _L =250V	I _{LEAK}	-	-	1	μA
O -S L C						
S S						
T -O	I _F =5 A, V _L =10V	T _{ON}	-	-	2.5	
T -O	I _F =5 A, V _L =10V	T _{OFF}	-	-	0.5	
O C	50V; =1MH	C _{OUT}	-	110	-	F
C						
I O	-	-	-	3	-	F
Input Characteristics @ 25° C						
I C C	I _L = 250 A	I _F	5	-	50	A
I D C	-	I _F	0.4	0.7	-	A
I V D	I _F = 5 A	V _F	0.9	1.2	1.4	V
R I V	-	V _R	-	-	5	V
R I C	V _R =5V	I _R	-	-	10	μA
I O C	-	C _{I/O}	-	3	-	F
I O I	-	V _{I/O}	3750	-	-	V _{RMS}

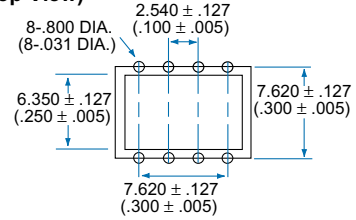
*NOTE: I

Mechanical Dimensions

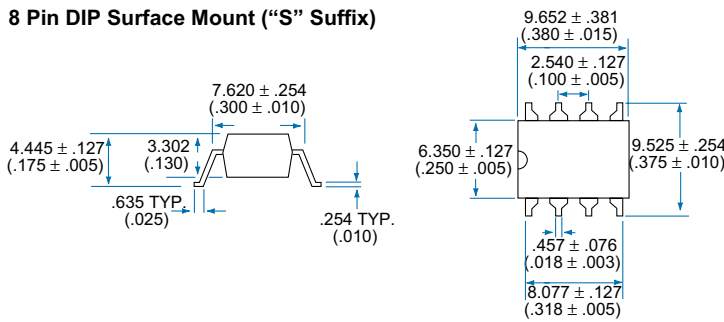
8 Pin DIP Through Hole (Standard)



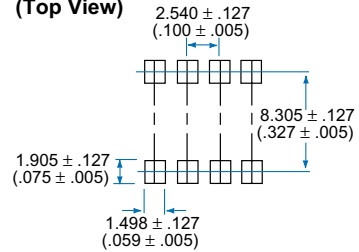
PC Board Pattern (Top View)



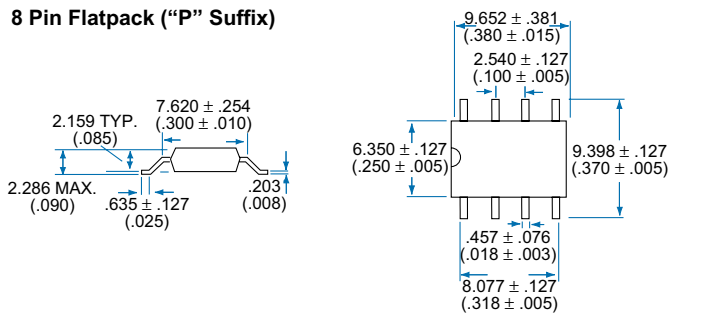
8 Pin DIP Surface Mount ("S" Suffix)



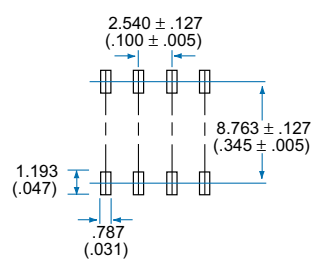
PC Board Pattern (Top View)



8 Pin Flatpack ("P" Suffix)



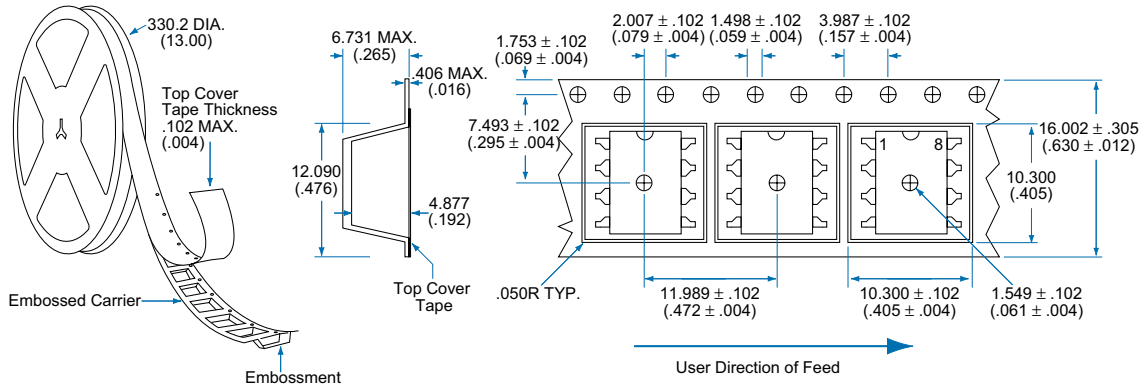
PC Board Pattern (Top View)



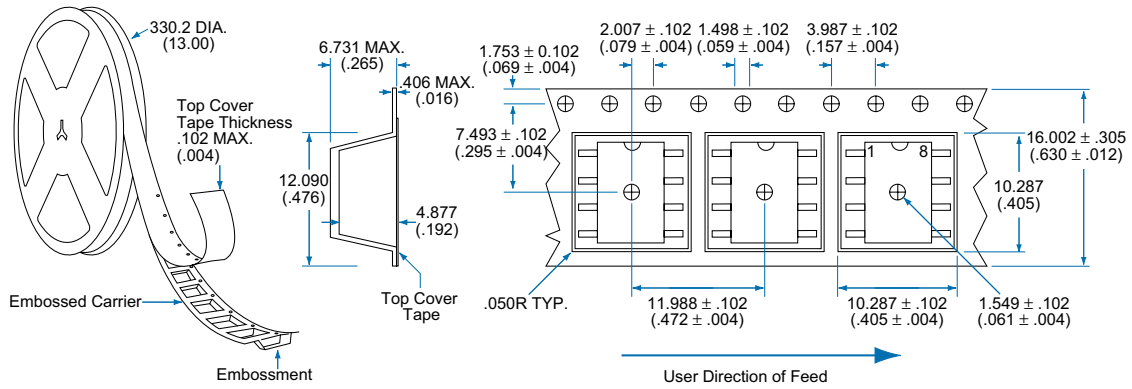
Dimensions
 mm
 (inches)

Mechanical Dimensions

Tape and Reel Packaging for 8 Pin Surface Mount Package



Tape and Reel Packaging for 8 Pin Flatpack Package



Dimensions
mm
(inches)



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