

The INND-TT36 series is a 0.36" triple digit display. It

is a through hole type LED display which can be used

Description

in various applications.

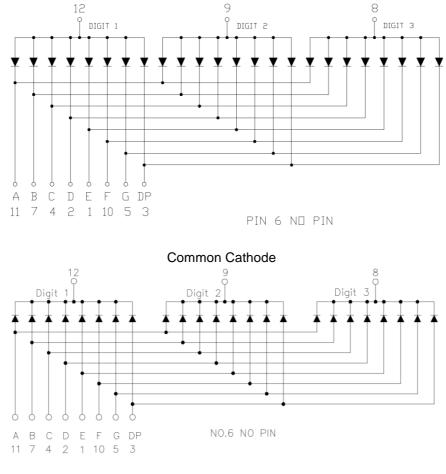
Features

- 0.36" (9.2mm) Digit Height
- Triple Digit Display
- Black/Grey Face, White Segment
- IC compatible, Easy assembly
- Dynamic drive connects
- RoHS Compliant, Pb Free

Applications

Consumer Electronics

Industrial Equipment



Internal Circuit Diagram

Common Anode

Figure 1. INND-TT36 series Internal Circuit Diagram



INND-TT36 Series 0.36" Through Hole Triple Digit Display

Package Dimensions

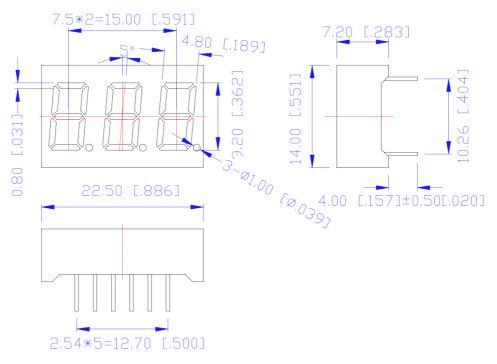


Figure 2. INND-TT36 series Package Dimensions

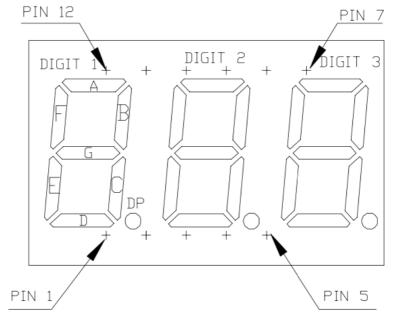
Notes

1. All pins are Ø0.51[.020]±0.1[.004]

2. Dimension in millimeter [inch], tolerance is ± 0.25 [.010] and angle is $\pm 1^\circ$ unless otherwise noted.

3. Bending≤Length*1%.

All Light On Segments Feature & Pin Position







Absolute Maximum Rating at 25°C (Note 1)

Product (Per Segment)	Emission Color	Technology	P _d (mW)	l⊧ (mA)	I _{FP} * (mA)	V _R (V)	Derate From 25°C (mA/°C)	Top (°C)	Tst (°C)
INND-TT36YGXX	Yellow Green	AlGaInP	70	25	90	5	0.33	-35°C~+85°C	-35°C~+85°C
INND-TT36YXX	Yellow	AlGaInP	70	25	90	5	0.33	-35°C~+85°C	-35°C~+85°C
INND-TT36AXX	Amber	AlGaInP	70	25	90	5	0.33	-35°C~+85°C	-35°C~+85°C
INND-TT36RXX	Red	AlGaInP	70	25	90	5	0.33	-35°C~+85°C	-35°C~+85°C
INND-TT36DRXX	Deep Red	AlGaInP	70	25	90	5	0.33	-35°C~+85°C	-35°C~+85°C
INND-TT36GXX	Green	InGaN	114	30	100	5	0.4	-35°C~+85°C	-35°C~+85°C

Notes

1. Condition for IFP is pulse of 1/10 duty and 0.1msec width



Electrical Characteristics $T_A = 25^{\circ}$ (Note 1)

		VF(V)@20mA		mA	λ(nm)@10mA		I*V(mcd)@10mA			IR(µA)@VR=5V	IV-M @IF =10mA
Product (Per Segment)	Emission Color	min	typ.	max	λD	λP	min	typ.	max	max	max
INND-TT36YGXX	Yellow Green	-	2.0	2.8	570	572	-	8	-	100	2:1
INND-TT36YXX	Yellow	-	2.0	2.8	590	592	-	38	-	100	2:1
INND-TT36AXX	Amber	-	2.0	2.8	605	612	-	47	-	100	2:1
INND-TT36RXX	Red	-	2.0	2.8	630	644	-	16	-	100	2:1
INND-TT36DRXX	Deep Red		2.0	2.8	645	660	-	14	-	100	2:1
INND-TT36GXX	Green	-	3.2	3.8	525	-	-	150	-	100	2:1

Notes

1. Performance guaranteed only under conditions listed in above tables.

ESD Precaution

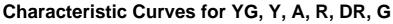
ATTENTION: Electrostatic Discharge (ESD) protection



The symbol above denotes that ESD precaution is needed. ESD protection for GaP and AlGaAs based chips is necessary even though they are relatively safe in the presence of low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are STATIC SENSITIVE devices. ESD precaution must be taken during design and assembly. If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

Please be advised that normal static precautions should be taken in the handling and assembly of this device to prevent damage or degradation which may be induced by electrostatic discharge (ESD).





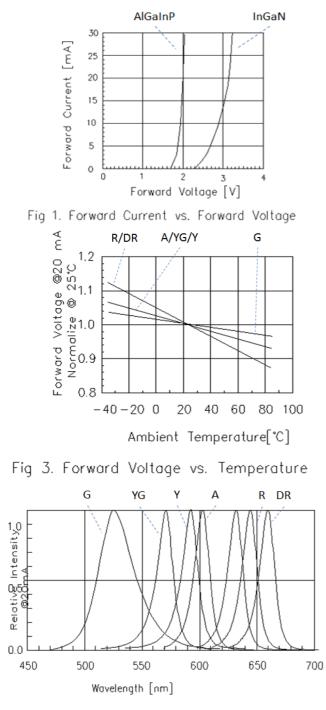
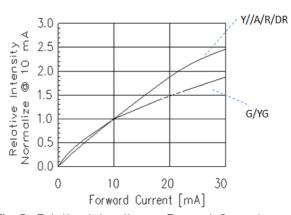
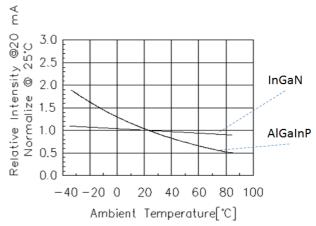


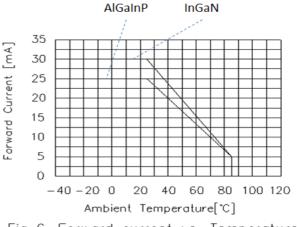
Fig 5. Relative Intensity vs. Wavelength

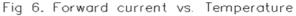














Ordering Information

Product	Emission Color	Technology	I*V(mcd) @10mA	VF(V) @20mA	Polarity	Face Color	Orderable Part Number
					Common Anode	Black	INND-TT36YGAB
INND-TT36YGXX	Yellow Green	AlGaInP	8	2.0	Common Cathode	Black	INND-TT36YGCB
	Tellow Green	AlGainF	0	2.0	Common Anode	Grey	INND-TT36YGAG
					Common Cathode	Grey	INND-TT36YGCG
					Common Anode	Black	INND-TT36YAB
INND-TT36YXX	Yellow	AlGaInP	38	2.0	Common Cathode	Black	INND-TT36YCB
INNU-11301AA					Common Anode	Grey	INND-TT36YAG
					Common Cathode	Grey	INND-TT36YCG
					Common Anode	Black	INND-TT36AAB
			47		Common Cathode	Black	INND-TT36ACB
INND-TT36AXX	Amber	AlGaInP	47	2.0	Common Anode	Grey	INND-TT36AAG
					Common Cathode	Grey	INND-TT36ACG
					Common Anode	Black	INND-TT36RAB
	Red		10		Common Cathode	Black	INND-TT36RCB
INND-TT36RXX		AlGaInP	16	2.0	Common Anode	Grey	INND-TT36RAG
					Common Cathode	Grey	INND-TT36RCG

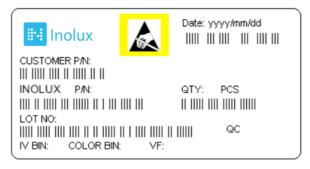


INND-TT36 Series 0.36" Through Hole Triple Digit Display

Product	Emission Color	Technology	I*V(mcd) @10mA	VF(V) @20mA	Polarity	Face Color	Orderable Part Number
					Common Anode	Black	INND-TT36DRAB
INND-TT36DRXX	Deep Red	AlGaInP	14	2.0	Common Cathode	Black	INND-TT36DRCB
ININD-1130DKXX					Common Anode	Grey	INND-TT36DRAG
					Common Cathode	Grey	INND-TT36DRCG
					Common Anode	Black	INND-TT36GAB
INND-TT36GXX	Groop	InCoN	150	3.2	Common Cathode	Black	INND-TT36GCB
	Green	InGaN		3.2	Common Anode	Grey	INND-TT36GAG
					Common Cathode	Grey	INND-TT36GCG



Label Specifications



Inolux P/N:

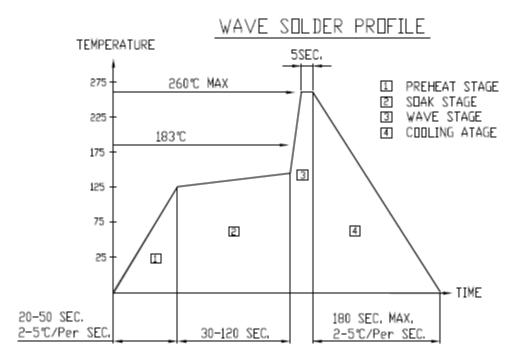
I	Ν	Ν	D	-	Т	Т	3	6	Х	Х	Х	-	Х	Х	Х	Х
	•	Disp Ty	olay pe		Displa	у Туре	Dime	nsion	Color	Polarity	Face Color		Customize Stamp-off			
Inc	blux) = neric olay		T: Throu T: Tı	ıgh hole riple	36 = Display	0.36″ ' Height	YG: 570 nm Y: 590 nm A: 605 nm R: 624 nm DR:645 nm G: 520 nm	A = Common Anode C=Common Cathode	B = Black G = Grey					

Lot No.:

Z	2	0	1	7	01	24	001
Internal		Year (2017	, 2018,)	Month	Date	Serial	
Tracker			, _ = = = = ;,				



Reflow Soldering



Soldering Iron

Basic Spec is \leq 4 sec. when 260°C (+10°C \rightarrow -1 second). Power dissipation of Iron should be less than 15W. Surface temperature should be under 230°C

Rework

Rework should be completed within 4 second under 245°C



Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	12-27-2019

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.