

DIP6, DC Input, Schmitt Trigger Photo Coupler

#### Description

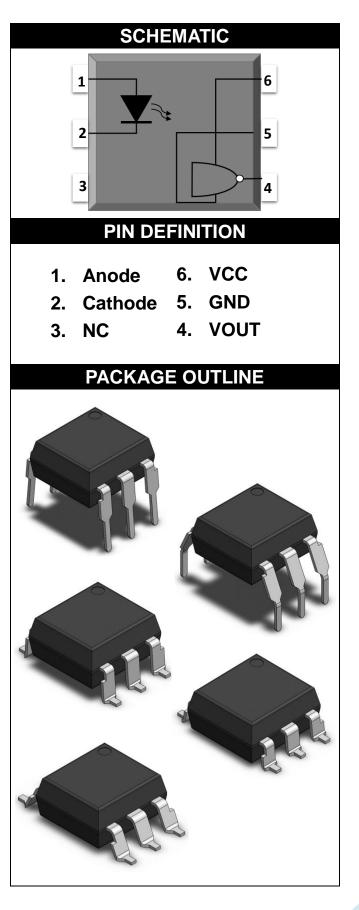
The H11LX series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a Schmitt Trigger detector in a plastic DIP6 package with different lead forming options.

#### Features

- High isolation 5000 VRMS
- DC input with Schmitt trigger output
- Operating temperature range 55 °C to 100 °C
- REACH & RoHS compliance
- MSL class 1
- Regulatory Approvals
  - UL UL1577
  - VDE EN60747-5-5(VDE0884-5)
  - CQC GB4943.1, GB8898

#### Applications

- Logic to logic isolator
- Programmable current level sensor
- Line receiver eliminate noise and transient problems
- AC to TTL conversion square wave shaping
- Digital programming of power supplies
- Interfaces computers with peripherals



Rev: 1.0



DIP6, DC Inp	out, Schmitt	Trigger Pl	hoto Co	oupler		
ABSOLUTE MAXIMUM RATINGS						
PARAMETER	SYMBOL	VALUE	UNIT	Note		
	INPUT					
Forward Current	IF	60	mA			
Peak Transient Current	IF(trans)	1	А	1		
Reverse Voltage	VR	6	V			
Input Power Dissipation	PI	120	mW			
OUTPUT						
Supply Voltage	VCC	3 to 16	V			
Output Voltage	VO	0 to 16	V			
Output Current	IO	50	mA			
Output Power Dissipation	PO	150	mW			
COMMON						
Total Power Dissipation	Ptot	250	mW			
Isolation Voltage	Viso	5000	Vrms	2		
Operating Temperature	Topr	-55~100	°C			
Storage Temperature	Tstg	-55~150	°C			
Soldering Temperature	Tsol	260	°C	3		

Note 1. ≤1µs P.W,300pps

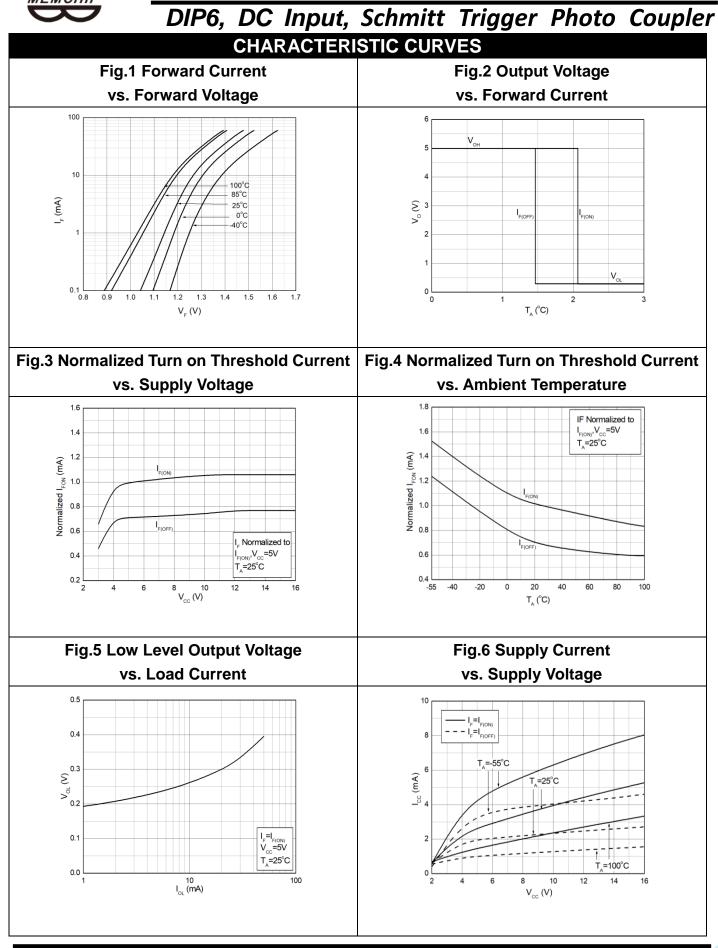
Note 2. AC For 1 Minute, R.H. =  $40 \sim 60\%$ 

Note 3. For 10 seconds



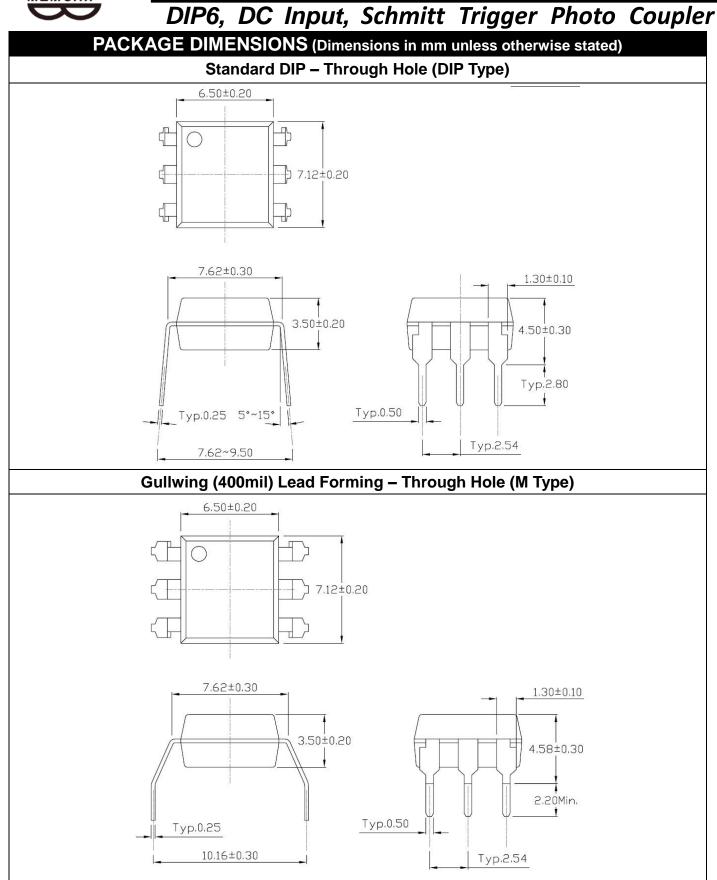
MEMCHIP	DIP6,	DC Ir	iput,	Sch	mit	t Trig	ger Photo Cou	ıpler
EL	ECTRICA	L OPTIC	AL CH	HARA	CTE	RISTICS	S at Ta=25°C	
PARAMET	ER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	NOTE
				NPUT				
Forward Voltage		VF	-	1.24	1.5	V	IF=10mA	
Reverse Cu	rrent	IR	-	-	10	μA	VR=5V	
Input Capaci	tance	Cin	-	60	-	pF	V=0, f=1MHz	
			Ol	JTPUT	-			
Operation Voltag	ge Range	VCC	3	-	15	V		
Off State Supply	/ Current	ICC(off)	-	1.6	5	mA	IF=0mA, VCC=5V	
On State Supply	/ Current	ICC(on)	-	1.6	5	mA	IF=10mA, VCC=5V	
High Level Output Current		ЮН	-	-	100	μA	IF=0mA, VCC=VO=15V	
	TRAN	SFER CHA	ARACT	ERIST	ICS (1	Га=-40 to	85°C)	
Low Level Output Voltage		VOL	-	0.35	0.6	V	VCC=5.5V, IF=5mA, RL=270Ω	
Turn On	H11L1		-	-	1.6			
Turn On Threshold Current	H11L2	IFon	-	-	10	mA	mA VCC=5V, RL=270Ω	
	H11L3		-	-	5			
Turn Off Thresho	ld Current	IFoff	-	1	-	mA	VCC=5V, RL=270Ω	
Turn On T	Turn On Time		-	-	4	μs		
Fall Time		tr	-	0.1	-	μs	VCC=5V, IF=IFon, RL=270Ω	
Turn Off T	Turn Off Time		-	-	4	μs		
Rise Time		tr	-	0.1	-	μs		
Data Rate			-	1	-	MHz		
Common Mode Transient Immunity at Logic High		СМН	10	-	-	KV/µs	VCM=1KV VCC=5V RL=270 Ω IF=0mA	
Common Mode Transient Immunity at Logic Low		CML	10	-	-	KV/µs	VCM=1KV VCC=5V RL=270 Ω IF=IFon	
Isolation Resistance		Riso	10^12	10^14	-	Ω	DC500V, 40 ~ 60% R.H.	
Floating Capa	citance	CIO	-	0.3	1	pF	V=0, f=1MHz	



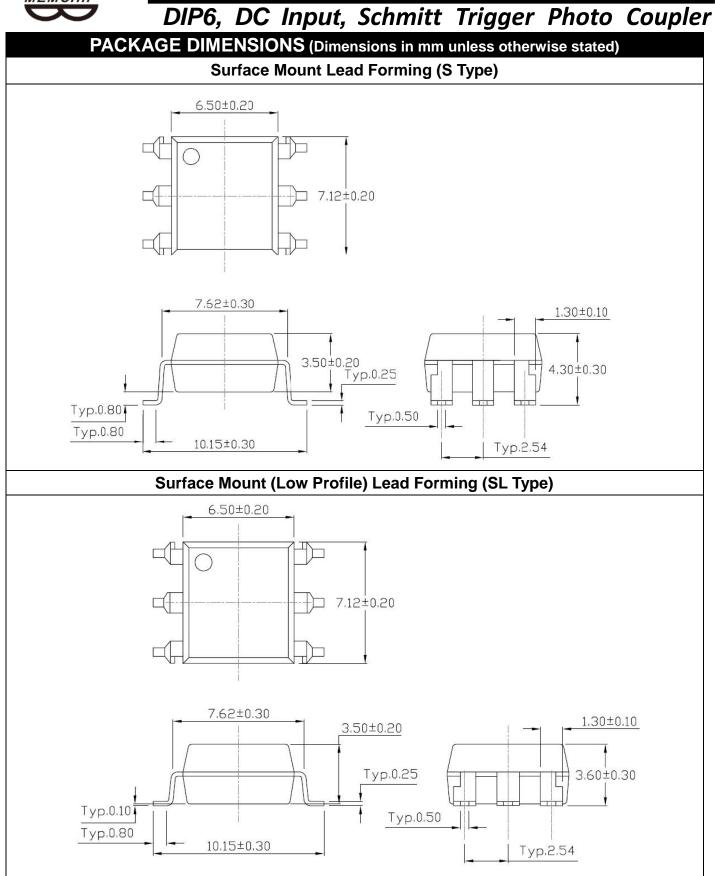


Release Date: 2024/5/8

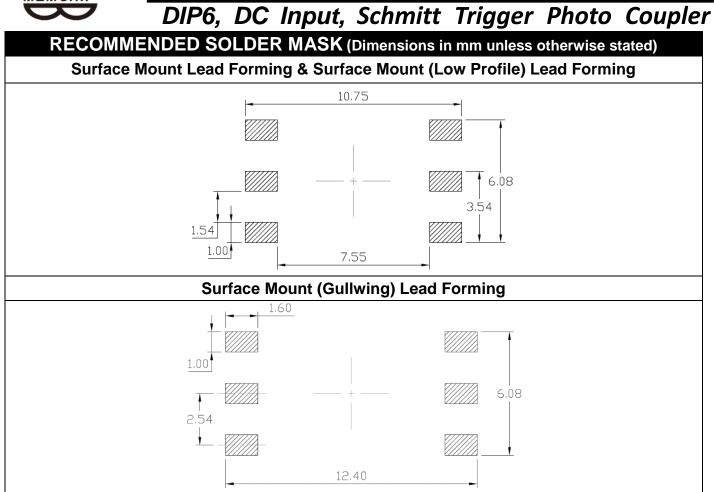


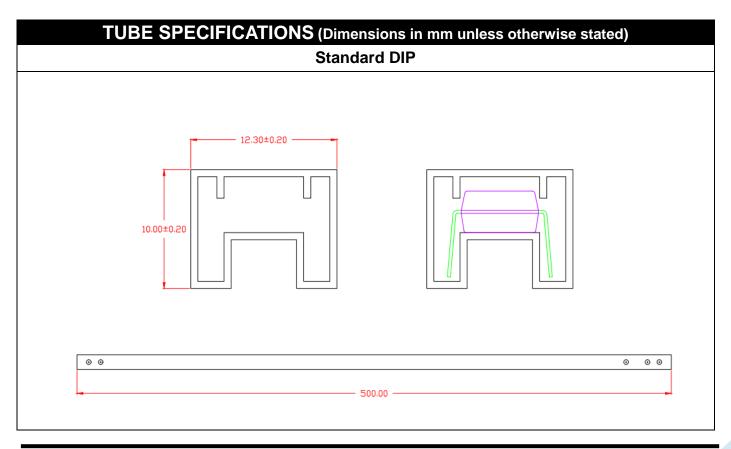








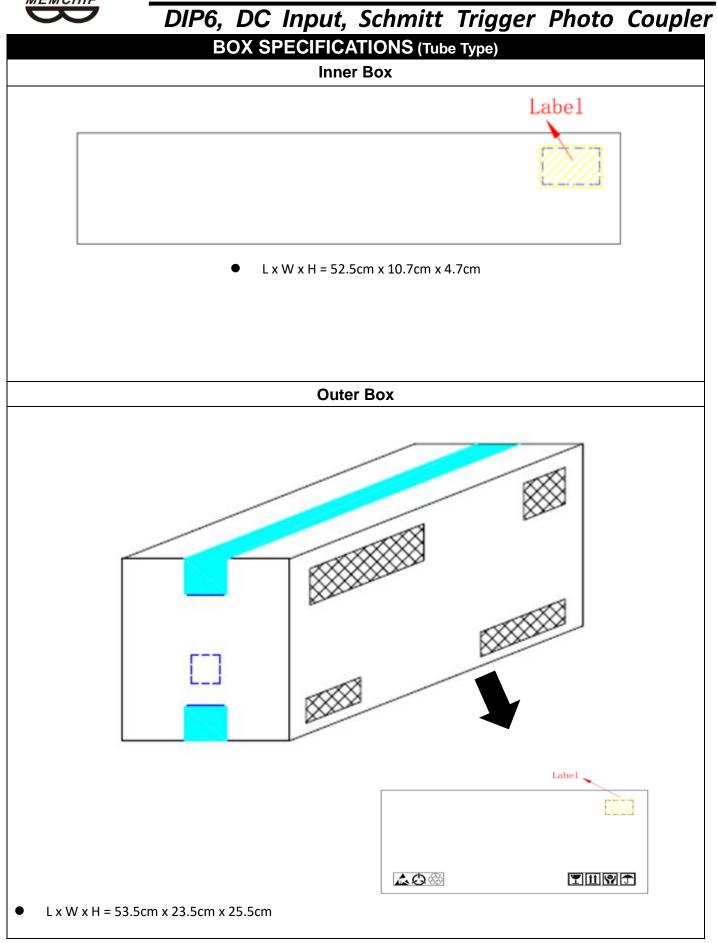




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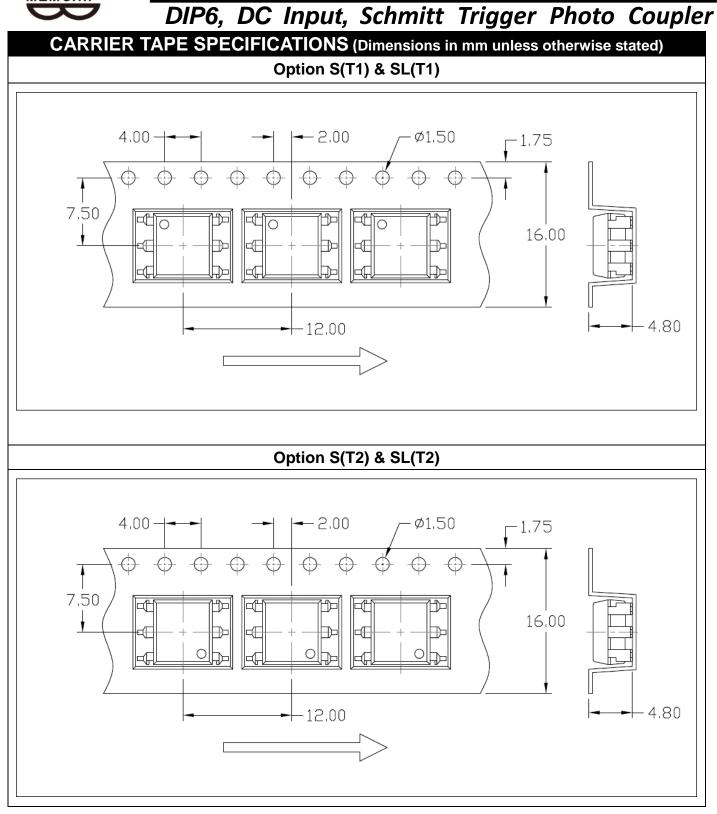




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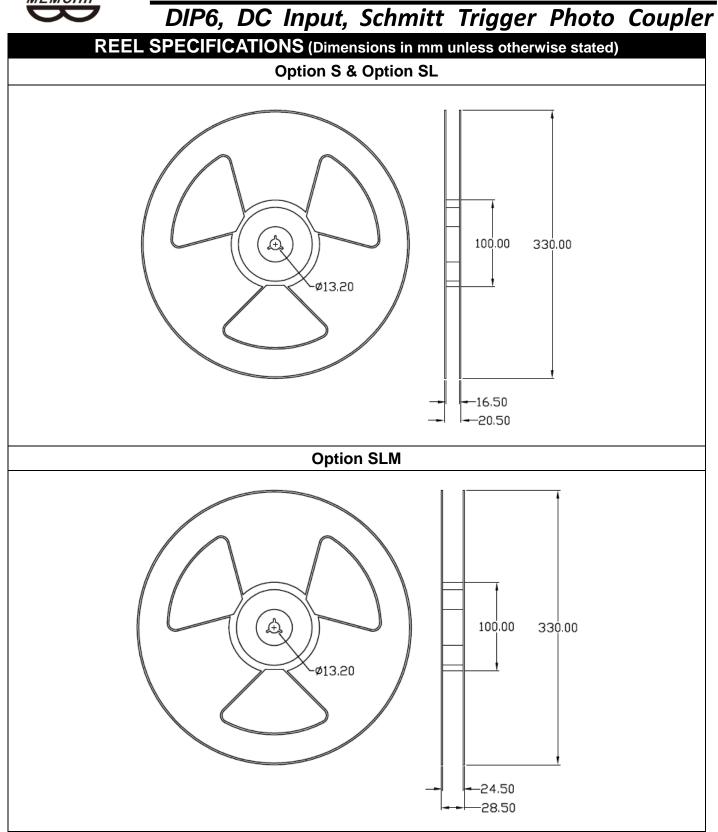
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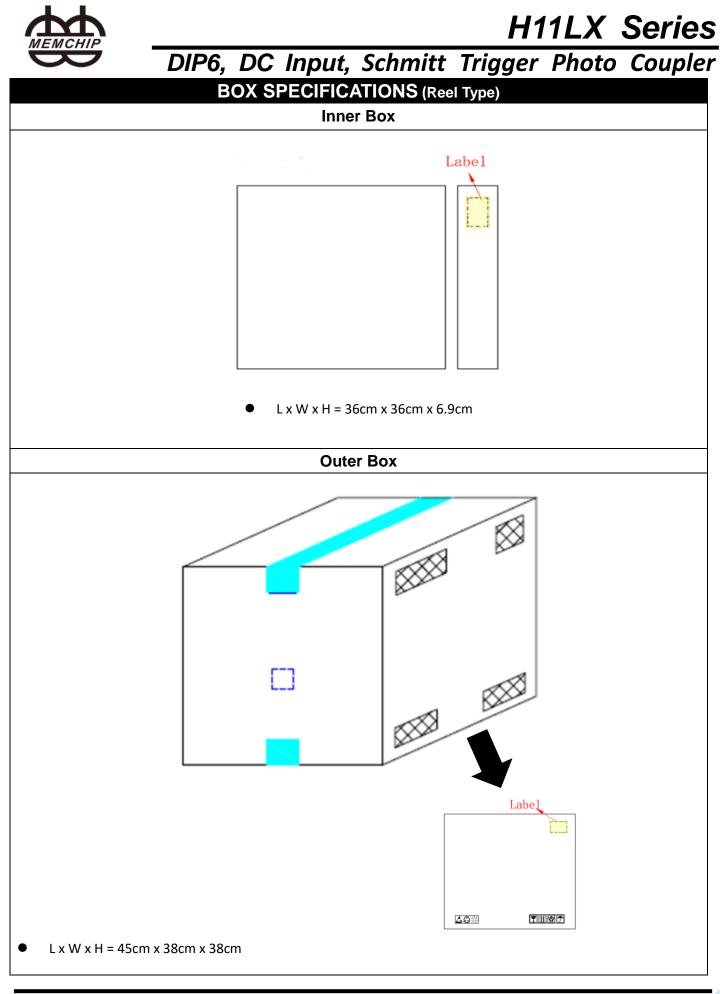




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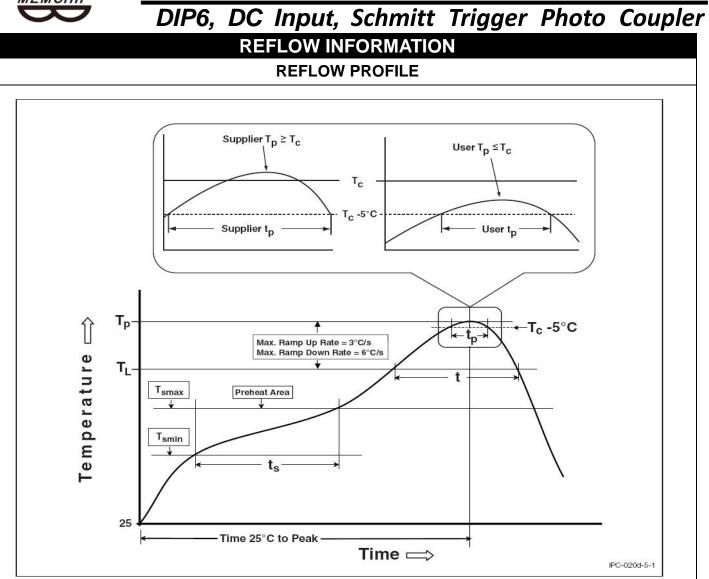




МЕМСНІР						
B	DIP6, DO	C Input,	Schmit	t Trigger	Photo	Coupler
		Inne	r Box			
		MARKING IN	FORMATIC	N		
MPC		MPC : Company Abbr. H11LX : Part Number & Rank V : VDE Option				
	H11LX			Fiscal Year		
	VYAWW			Manufacturir : Work Week	ng Code	
		1				
ORDERING INFORMATION			LABEL INFO	ORMATION		
	.X(Y)(Z)-G	V	мемснір	· 喆光照明光 WISELITE O	<b>光電股份有</b> Iptronics Co., I	
H11LX – Part Number (X=1/2/3)		Part No	: XXXXXXXXXXX	KXX Bin	Code : X	
Y – Lead Form Option (M/S/SL/None)						
Z – Tape and Reel Option (T1/T2) G – Green Option (G or None)			Lot No : XXXXXXXXXX Date Code : XXXX			a an lea
V – VDE Option (V or None)		Q'ty : XXXX pcs				
Packing Quantity						
Ontion	Ouromtitut	O o m t i tu r	lunar hav	0	4:4.4 Outor b	

Packing Quantity						
Option	Quantity	Quantity – Inner box	Quantity – Outer box			
None	50 Units/Tube	32 Tubes/Inner box	10 Inner box/Outer box = 16k Units			
М	50 Units/Tube	32 Tubes/Inner box	10 Inner box/Outer box = 16k Units			
S(T1)	1000 Units/Reel	3 Reels/Inner box	5 Inner box/Outer box = 15k Units			
S(T2)	1000 Units/Reel	3 Reels/Inner box	5 Inner box/Outer box = 15k Units			
SL(T1)	1000 Units/Reel	3 Reels/Inner box	5 Inner box/Outer box = 15k Units			
SL(T2)	1000 Units/Reel	3 Reels/Inner box	5 Inner box/Outer box = 15k Units			





Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
Temperature Min. (Tsmin)	100	150°C
Temperature Max. (Tsmax)	150	200°C
Time (ts) from (Tsmin to Tsmax)	60-120 seconds	60-120 seconds
Ramp-up Rate (tL to tP)	3°C/second max.	3°C/second max.
Liquidous Temperature (TL)	183°C	217°C
Time (tL) Maintained Above (TL)	60 – 150 seconds	60 – 150 seconds
Peak Body Package Temperature	235°C +0°C / -5°C	260°C +0°C / -5°C
Time (tP) within 5°C of 260°C	20 seconds	30 seconds
Ramp-down Rate (TP to TL)	6°C/second max	6°C/second max
Time 25°C to Peak Temperature	6 minutes max.	8 minutes max.





#### DIP6, DC Input, Schmitt Trigger Photo Coupler DISCLAIMER

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- The characteristic curves shown in this datasheet are representing typical performance which are not guaranteed.
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- This product is not intended to be used for military, aircraft, automotive, medical, life sustaining or lifesaving applications or any other application which can result in human injury or death.
- Please contact WISELITE sales agent for special application request.
- Immerge unit's body in solder paste is not recommended.
- Parameters provided in datasheets may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated in each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify WISELITE's terms and conditions of purchase, including but not limited to the warranty expressed therein.
- Discoloration might be occurred on the package surface after soldering, reflow or long-time use. It neither impacts the performance nor reliability.

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