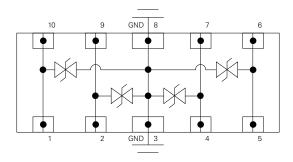
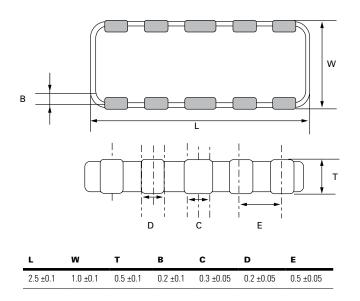
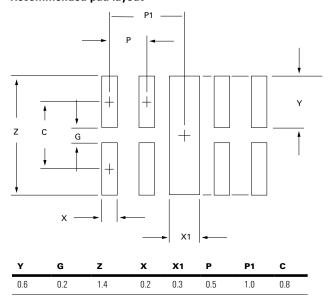
# **Equivelent circuit**



# Dimensions-mm



#### Recommended pad layout



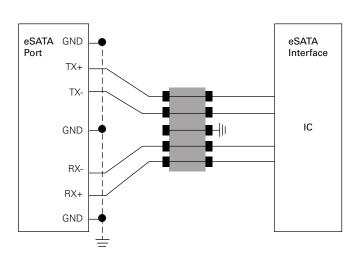
# **General specifications**

Operating temperature: - 55 °C to +125 °C			
Storage temperature (component): - 55 °C to +125 °C			
High temperature load voltage: +125 °C for 1000 hours at rated voltage			
Thermal shock: 100 cycles, -55 °C to +125 °C, 30 minuets dwell time			
Resistance to solder heat: +260 °C ±5 °C 10 seconds			
Moisture sensitivity level (MSL): 1			

# **HDMI** layout

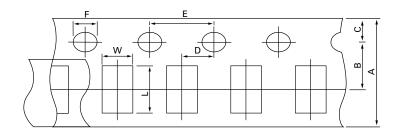
#### HDMI Port **HDMI** Chipset D2+ • Ground D2-D1+ **Outside World** • Ground • D1-D0+ Ground D0-CLK+ Ground CLK-Case Signal Ground Ground Ground

# eSATA layout



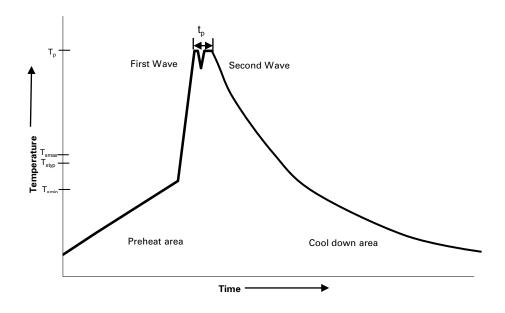
#### Packaging information- mm

Supplied in tape and reel packaging, 5000 parts per seven inch (178 mm) reel per EIA Standard 481-1



Α	В	С	D	E	F	L	W
8.0 ±0.30	3.50 ±0.05	1.75 ±0.10	2.00 ±0.05	4.00 ±0.10	1.5 ±0.10	2.9 ±0.20	1.40 ±0.20

# Wave solder profile



#### Reference EN 61760-1:2006

Profile feature		Standard SnPb solder	Lead (Pb) free solder	
Preheat	• Temperature min. (T <sub>smin</sub> )	100 °C	100 °C	
	• Temperature typ. (T <sub>styp</sub> )	120 °C	120 °C	
	• Temperature max. (T <sub>smax</sub> )	130 °C	130 °C	
	Time (T <sub>smin</sub> to T <sub>smax</sub> ) (t <sub>s</sub> )	70 seconds	70 seconds	
$\Delta$ preheat to max Temperature		150 °C max.	150 °C max.	
Peak temperature (T <sub>P</sub> )*		235 °C − 260 °C	250 °C − 260 °C	
Time at peak	temperature (t <sub>p</sub> )	10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave	
Ramp-down r	ate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	
Time 25 °C to	25 °C	4 minutes	4 minutes	

# Manual solder

+280 °C (3 seconds maximum by soldering iron), generally manual/hand soldering is not recommended.

### Solder reflow profile

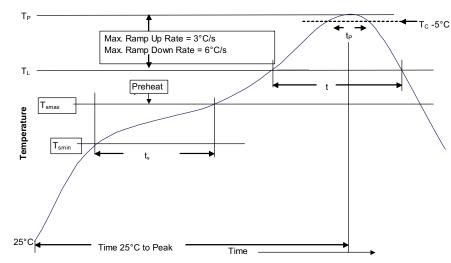


Table 1 - Standard SnPb solder (T<sub>C</sub>)

Package thickness	Volume mm3 <350	Volume mm3 ≥350
<2.5 mm)	235 °C	220 °C
≥2.5 mm	220 °C	220 °C

Table 2 - Lead (Pb) free solder (T<sub>C</sub>)

Package thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000	
<1.6 mm	260 °C	260 °C	260 °C	
1.6 – 2.5 mm	260 °C	250 °C	245 °C	
>2.5 mm	250 °C	245 °C	245 °C	

#### Reference J-STD-020

Profile feature	Standard SnPb solder	Lead (Pb) free solder
Preheat and soak • Temperature min. (T <sub>smin</sub> )	100 °C	150 °C
• Temperature max. (T <sub>smax</sub> )	150 °C	200 °C
• Time (T <sub>Smin</sub> to T <sub>Smax</sub> ) (t <sub>S</sub> )	60-120 seconds	60-120 seconds
Ramp up rate $T_L$ to $T_p$	3 °C/ second max.	3 °C/ second max.
Liquidous temperature (TL) Time (t <sub>L</sub> ) maintained above $T_L$	183 °C 60-150 seconds	217 °C 60-150 seconds
Peak package body temperature (Tp)*	Table 1	Table 2
$\overline{\text{Time } (t_p)^* \text{ within 5 °C of the specified classification temperature } (T_c)}$	20 seconds*	30 seconds*
Ramp-down rate (T <sub>p</sub> to T <sub>L</sub> )	6 °C/ second max.	6 °C/ second max.
Time 25 °C to peak temperature	6 minutes max.	8 minutes max.

<sup>\*</sup> Tolerance for peak profile temperature (Tp) is defined as a supplier minimum and a user maximum.

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