



T1/E1/CEPT Isolation Filter Module

AT06C10I

- Ethernet based LAN, WAN and other networking applications
- 2Kvrms Isolation module
- Ideal for DC/DC Converter Applications
- Operating Temperature Range: -40°C to +115°C
- Compliant to IEEE802.3
- 100% Tested for 2KV Hi-Pot

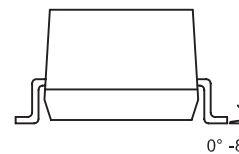
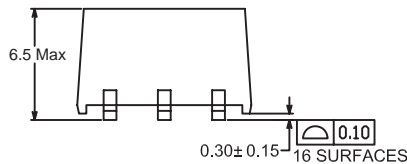
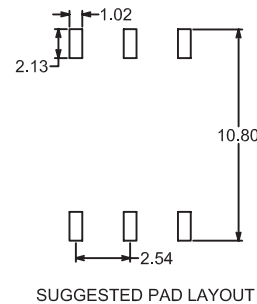
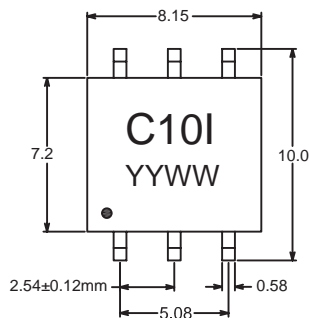


Electrical Specifications @ 25°C						
Part Number	Turns Ratio(±3%)	OCL(uH Typ)	LL(uH Typ)	Primary DCR(Ohm Max)	HI-POT @60hz, 1mA	Primary Pins
	Pri:Sec	100KHz 0.1V	100KHz 0.2V			
AT06C10I	2CT:1CT	960	0.50	0.8	2000Vrms, 1 Sec.	1-3

All specifications subject to change without notice.

MECHANICAL

(Dimensions in mm)

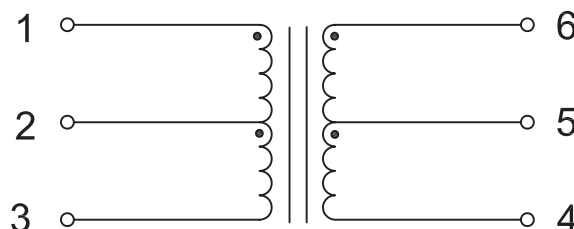


Unless otherwise specified all tolerances are: ±0.25 in mm

\* 9/23/13 Part number printed on part changed to "C10I"

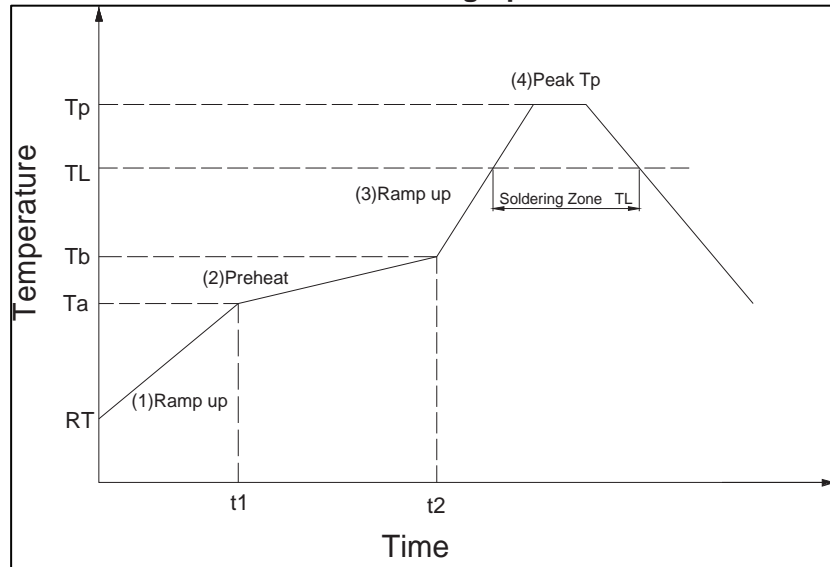
SCHEMATICS

2CT:1CT





IR reflow graph



IR reflow profile

Form-1 (Reference JEDEC J-STD-020C Table 5-2) )

IR reflow profile		Sn-Pb	Pb-free
step#	Profile Feature	Condition/Duration	Condition/Duration
step1	Ramp-up rate	1.5-3°C/sec.	1.5-3°C/sec.
step2	Preheat : 100~150°C(Ta-Tb)	t1-t2 : 60~120 sec.	t1-t2 : 60~180 sec.
step3	Ramp-up rate(T <sub>L</sub> to T <sub>P</sub> )	1.5-3°C/sec.	1.5-3°C/sec.
	Temperature maintained above 183°C(T <sub>L</sub> )	T <sub>L</sub> : 60-150sec.	T <sub>L</sub> : 80-150sec.
step4	Peak temperature(T <sub>P</sub> )	230+5/-10°C	260+0/-5°C
	Time within 5°C of actual peak temperature	30±10 sec.	30±10 sec.
step5	Ramp-down rate	6°C/sec.Max	6°C/sec.Max
Note1	Subject the samples to 3 cycles of the above defined reflow conditions		Subject the samples to 3 cycles of the above defined reflow conditions
Note2	Time 25°C to peak temperature : 6 minutes max.		Time 25°C to peak temperature : 8 minutes max.
Note3			The time between reflows shall be 5 minutes minimum and 60minutes maximum

**SnPb Eutectic Process- "Package Peak Reflow Temperature"**

Form-2 (Reference JEDEC J-STD-020C Table 4-1)

	< 350mm <sup>3</sup>	≥350mm <sup>3</sup>
<2.5mm	240 +0/-5°C	225 +0/-5°C
≥2.5mm	225 +0/-5°C	225 +0/-5°C

**Pb-free Process - "Package Peak Reflow Temperature"**

Form-3 (Reference JEDEC J-STD-020C Table 4-2)

	< 350mm <sup>3</sup>	350mm <sup>3</sup> -2000mm <sup>3</sup>	> 2000mm <sup>3</sup>
<1.6mm	260 +0/-5°C	260 +0/-5°C	260 +0/-5°C
1.6mm-2.5mm	260 +0/-5°C	250 +0/-5°C	245 +0/-5°C
>2.5mm	250 +0/-5°C	245 +0/-5°C	245 +0/-5°C