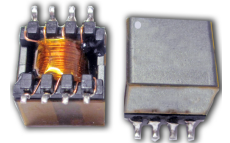


Flyback Transformer, SMT, 8 pin



12.70 x 15.24 x 11.43mm

AFBT-01-T

RoHS/RoHS II Compliant per EU Directive 2002/95/EC

FEATURES:

- Allows 36 – 72 Vdc input to operate at 250kHz
- Provides 1500 Vrms isolation between primary and bias - secondary

APPLICATIONS:

- Supports 7W PoE Applications with 3.3V, 2.1A output
- Fits in Texas Instruments TPS23753A – Power Management IC Evaluation Board

ELECTRICAL SPECIFICATIONS:

Abrakon P/N:	AFBT-01-T
Operating Temperature	-20°C to +100°C
Storage Temperature	-20°C to +100°C

Parameters	Minimum	Typical		Units	Notes
Inductance	139.5	155	170.5	uH	Pri@250kHz, 0.1Vrms
Saturation Inductance	139.5			uH	Pri@50kHz, 0.1Vrms, 0.65Adc
Leakage Inductance			4.0	uH	Pri, short 5-6-7-8-2-1 @250kHz, 0.1Vrms
DCR (for reference only)			414	mΩ	(3-4)
			822	mΩ	(2-1)
			50	mΩ	(6-8), (5-7)
Insulation Resistance	100			MΩ	Pri+Bias : Sec @500VDC
Hipot		1500		Vrms	Pri+Bias : Sec @2mA, 50Hz, 3s

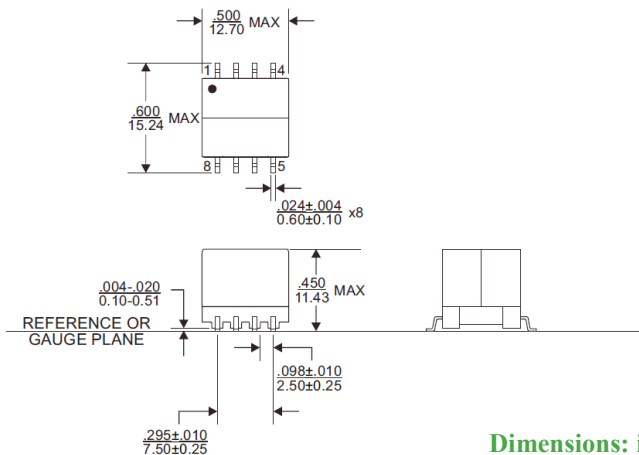
PART IDENTIFICATION:

AFBT-01 - □

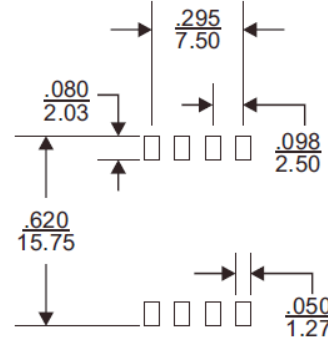
Packaging

T: 200pcs/reel
Blank: Bulk

OUTLINE DIMENSION:



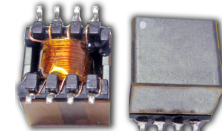
Recommended Land Pattern



Dimensions: inch/mm (Unless otherwise specified, all tolerances are ±0.01/0.25)



Flyback Transformer, SMT, 8 pin

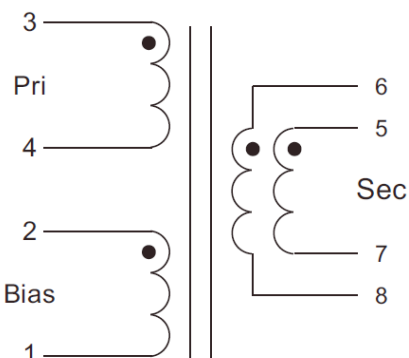


12.70 x 15.24 x 11.43mm

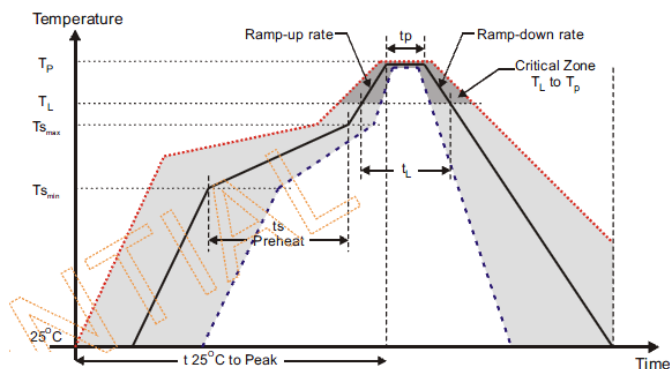
AFBT-01-T

RoHS/RoHS II Compliant per EU Directive 2002/95/EC

SCHEMATIC



PROFILE OF WAVE SOLDERING



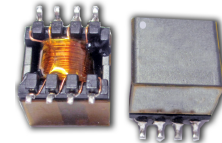
Reflow Profile

- Black line represents typical reflow profile
- - - Red line represents upper temperature limit
- - - Blue line represents lower temperature limit

PROFILE FEATURE	UNIT	LIMITS
Average Ramp-Up Rate($T_{s_{max}}$ to T_p)	°C/sec	3 Max
Preheat - Temperature Min($T_{s_{min}}$)	°C	150
Preheat - Temperature Max($T_{s_{max}}$)	°C	200
Preheat - Time ($t_{s_{min}}$ to $t_{s_{max}}$)	sec	60 - 180
Temperature (T_L)	°C	217
Time(t_L) maintained above temperature (T_L)	sec	60 - 150
Peak/Classification Temperature (T_p)	°C	245 +0 / -5
Time(t_p) within 5°C of actual Peak Temperature(T_p)	sec	20 - 40
Ramp-Down Rate	°C/sec	6 Max
Time 25°C to Peak temperature(T_p)	min	8 Max



Flyback Transformer, SMT, 8 pin



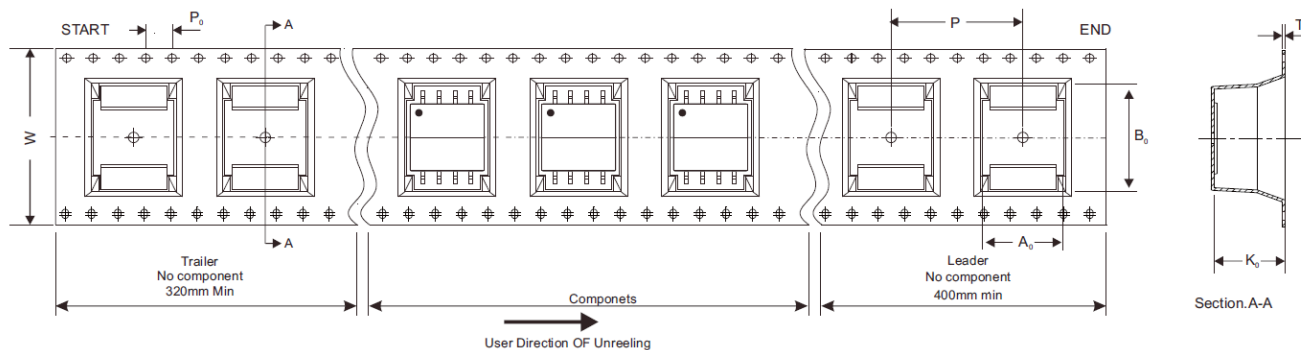
12.70 x 15.24 x 11.43mm

AFBT-01-T

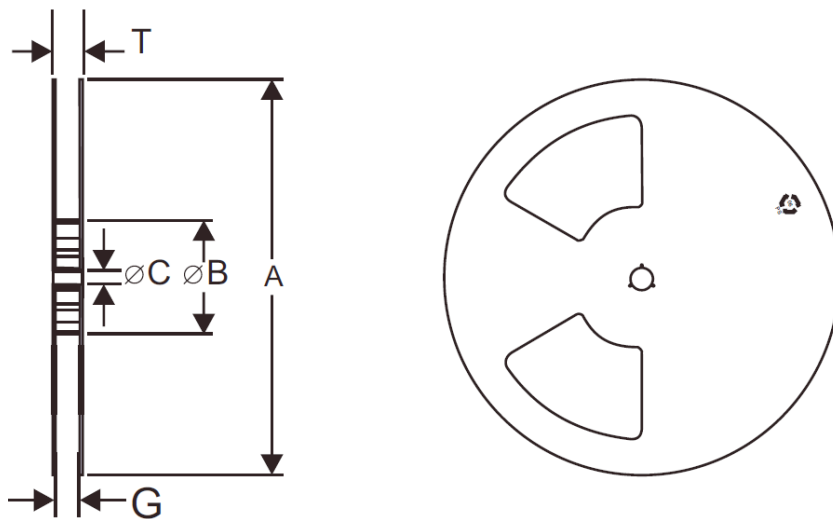
RoHS/RoHS II Compliant per EU Directive 2002/95/EC

TAPE & REEL:

Packing (200pcs/Reel)



Ao	Bo	Ko	W	P	Po	T
12.40±0.10	16.00±0.10	12.00±0.10	32.0+0.30, -0.00	20.00±0.10	4.00±0.10	0.50±0.05



A	B	C	G	T
330	100	13	32.40	37.20

Dimensions: mm

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