March 7, 2007

DATATRONIC DISTRIBUTION, INC.

SERIES 500 ADSL POTS SPLITTER INDUCTORS

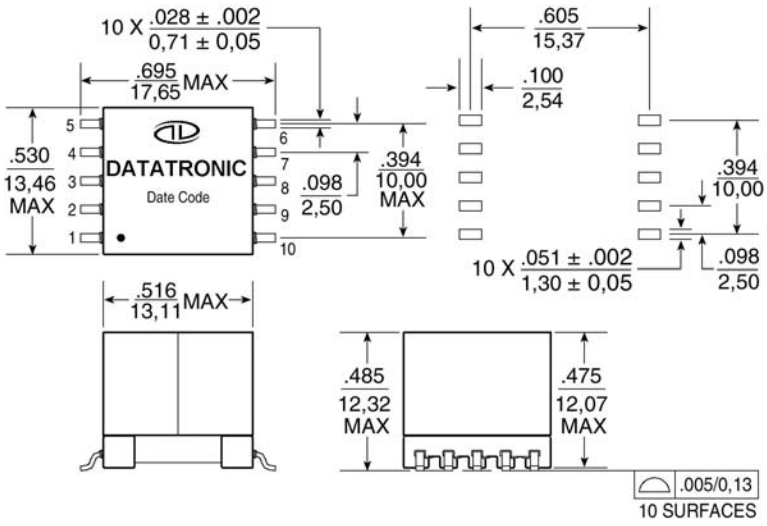
Features

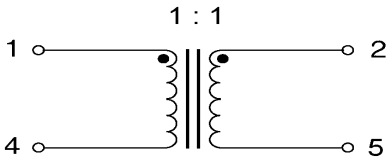
- Maximum DC Line Current up to 80mA DC
- Dielectric strength 850VDC for 1 second
- Extended temperature range available
- Customization available
- Optimized design for size and performance

ELECTRICAL SPECIFICATIONS AT 25°C

Part Number	Turns Ratio (1-4):(2-5)±1%	OCL, Primary 10kHz, 1.0VAC, 0/100mADC 1-4 (mH)	Interwinding Capacitance 10kHz, 1.0VAC 1-2 Cs pf (Typ)	Resonant Frequency 1-4 & 2-5 (Min)	DCR @20°C 1-4, 2-5 (Ω±10%)	Line Loop Current (mA)
SM500-1	1:1	10.0±10%	1.6nf	220kHz	6.50	50
SM500-2	1:1	8.0±10%	820pf	350kHz	5.00	50
SM500-3	1:1	6.4±10%	820pf	350kHz	5.00	50
SM500-4	1:1	6.0±10%	820pf	220kHz	4.50	80
SM500-5	1:1	5.5±10%	820pf	220kHz	4.75	80
SM500-6	1:1	5.0±10%	820pf	450kHz	5.00	80
SM500-7	1:1	4.0±10%	680pf	450kHz	3.50	80
SM500-8	1:1	3.1±10%	680pf	400kHz	3.50	80
SM500-9	1:1	2.5±10%	680pf	500kHz	3.50	80
SM500-10	1:1	1.8±10%	420pf	700kHz	2.00	80
SM500-11	1:1	1.6±10%	360pf	750kHz	1.80	80
SM500-12	1:1	1.4±10%	420pf	800kHz	1.95	80
SM500-13	1:1	1.25±10%	360pf	800kHz	1.80	80
SM500-14	1:1	1.0±10%	360pf	800kHz	1.80	80

OUTLINE DIMENSIONS





SCHEMATIC

NOTES:
1. Dimensions are shown in inches/millimeters
   Unless otherwise specified, tolerance
   = Inches: ±0.010
   = Millimeters: ±0,25
2. For non-RoHS parts replace SM prefix with 42- (e.g. SM500-1 becomes 42-500-1)
3. Terminal finish is compliant to RoHS requirements. Solder in accordance with J-STD-020C.

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All specifications are subject to change without notice.

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