STANDARD LOW POWER INDUCTORS

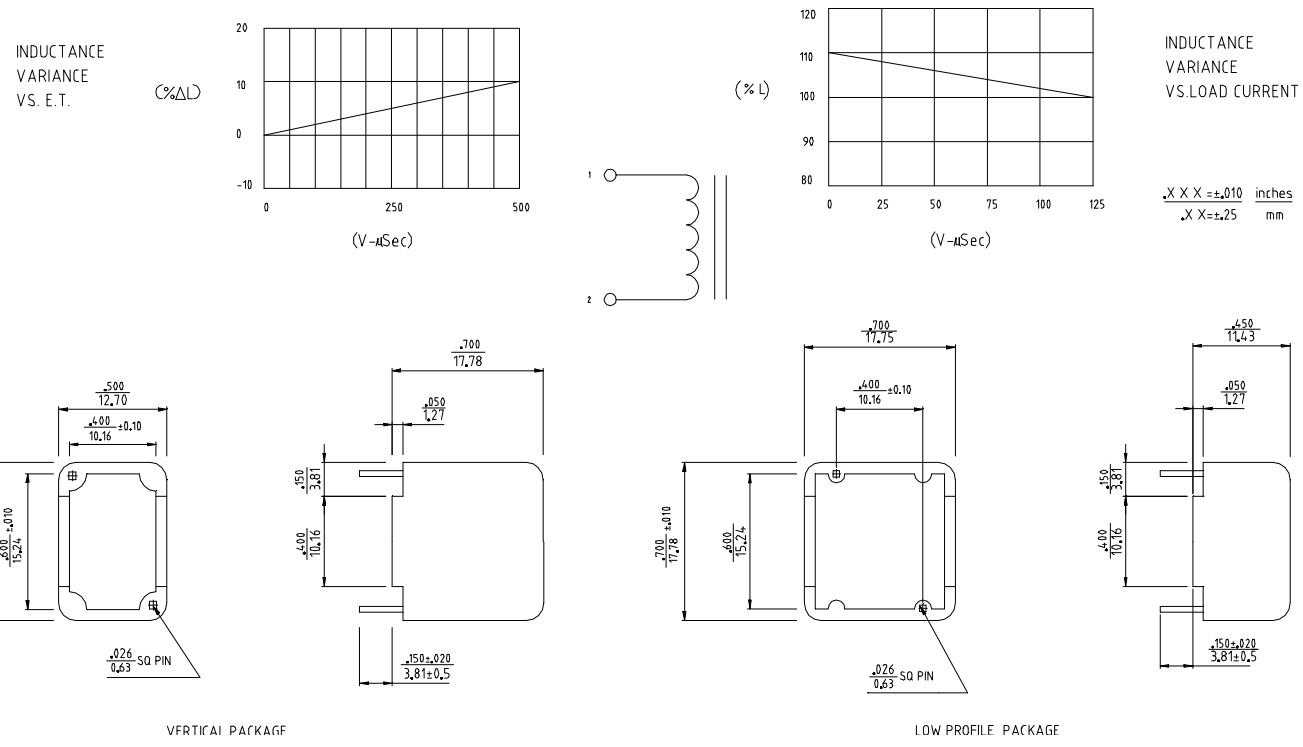
- Designed for general purpose use, switch mode power converters and ripple filters.
- High inductance stability with varying volt-seconds.
- High inductance stability with varying load currents.
- Compact standard packages.
- Choose low profile or vertical.
- Simplified application.

ELECTRICAL CHARACTERISTICS @25^{0}C

Reference Operating Values					Desihn Control Values			
Low Profile Part No.	Vertical Part No.	Inductance Typical (µH)	I_{DC} (1) (Amps)	Max. $ETop_{(2)}$ (V-µs)	Inductance No D.C. (µH) Max.	1000 Hz Test Volts No D.C.	DCR (ohms) Max.	Min. Energy Storage (µJ)(1)
UT29625	UT29645	150	1.7	80	175	.050	.36	215
UT29626	UT29646	220	1.5	90	255	.070	.38	240
UT29627	UT29647	330	1.0	100	380	.080	.74	165
UT29628	UT29648	470	.90	120	540	.100	1.10	190
UT29629	UT29649	680	.85	175	790	.120	1.25	245
UT29630	UT29650	820	.75	175	950	.130	2.30	230
UT29631	UT29651	1000	.50	175	1150	.140	2.40	125

1.rated for 40 T rise 2.raed at continuous operation to 20% of I_{full}

TYP. INDUCTANCE CHARACTERISTICS



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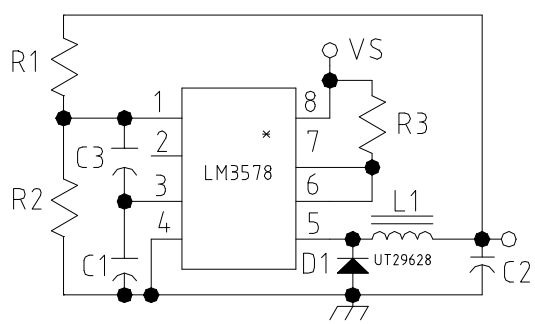
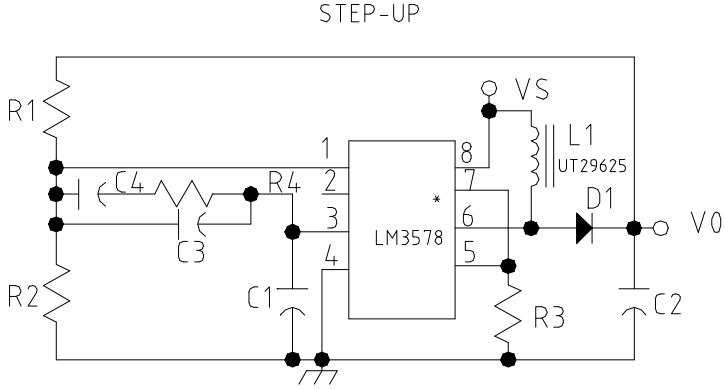
STANDARD LOW POWER INDUCTORS

TYPICAL APPLICATION

STEP-DOWN



STEP-UP

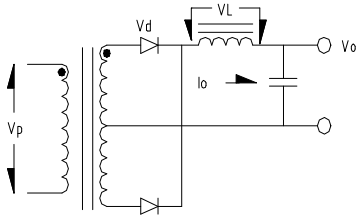
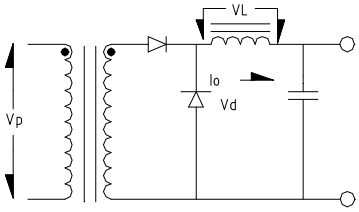
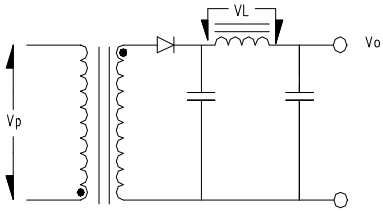
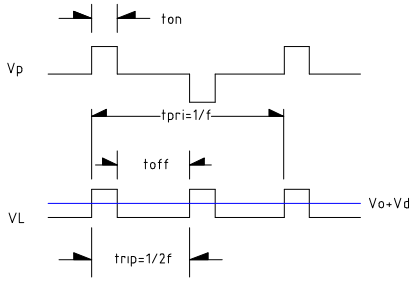
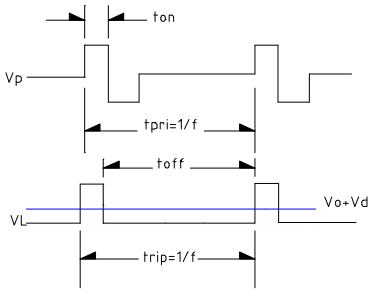
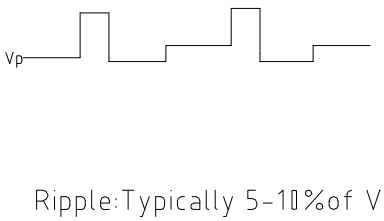


Vs=15V fosc=50KHz C1=1820pF
Vo=5V R1=40K C2=220 F
Vripple=50mV R2=10K C3=10pF
IL=350mA R3=0.1
L1=470 H

Vs=5V fosc=50KHz R4=220K
C4=0.0022 F
Vo=15V R1=140K C1=1820pF L1=150 H
Vripple=5mV R2=10K C2=470 F
IL=80mA R3=0.1 C3=20pF

*Used for Fully Synchronous Operation

*LM3578 is a National Semiconductor product.

AVERAGING FILTERS		RIPPLE FILTER
FIG. 1 Full or Half Bridge	FIG. 2 Buck Converter	FIG. 3 Flyback Converter
		
		
ETop = (Vo+Vd) toff Maximum Operating ET occurs at highest input and produces highest core loss. DC current must be limited to prevent excessive temperature rise.		Operating ET of inductor produces negligible core loss contribution to temperature rise.

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