

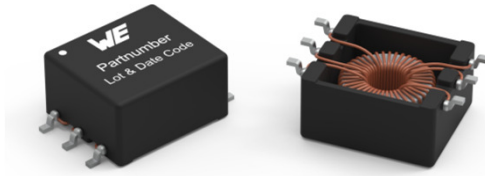
Tiny Push-pull Transformers

WE-PPTI in size 1308

Surface Mount - SMT



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Characteristics

- Tiny Push-Pull Transformers
- Low Profile
- Surface Mount
- 12V and 24V Inputs
- Currents up to 1100mA
- Operating temperature range -40°C to +125°C

Applications

- Solar inverters, protection relays
- Factory automation
- Building automation
- Medical instruments
- Motor drives: IGBT and SiC gate-driver supplies
- Isolated power supply for CAN, RS-485, RS-422,
- RS-232, SPI, I2C, low-power

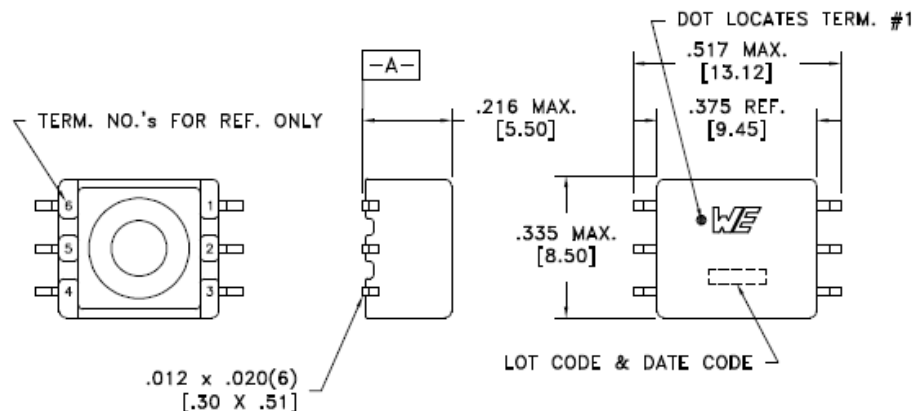
Approved for Texas Instruments SN6507

Part Number	V _{in} (V)	V _{out} (V)	I _{out} (mA) ¹	N _{sec} /N _{prl}	V-usec ²	L _{prl} min (μH)	L _{lk} max(μH)	DCR _{prl} (Ω)	DCR _{sec} (Ω)
750320324	12	3.3	1100	0.42	38	450	1.30	0.37	0.14
750319690	12	5	1500	0.57	24	100	0.75	0.17	0.12
750319691	12	12	625	1.14	23	100	0.50	0.14	0.19
750319692	12	15	500	1.33	20	100	0.40	0.13	0.18
750319693	12	24	400	2.29	23	100	0.40	0.11	0.32
750319949	12	30	250	2.75	38	350	0.50	0.28	1.80
750320325	24	3.3	1000	0.19	50	700	2.80	0.35	0.06
750319694	24	5	750	0.25	52	600	2.80	0.35	0.07
750319695	24	12	500	0.57	46	600	1.10	0.25	0.13
750319696	24	15	500	0.71	46	500	0.90	0.21	0.18
750319697	24	24	250	1.07	46	500	0.95	0.28	0.95
750319948	24	30	200	1.36	46	600	0.60	0.28	0.43

Note 1: For operation at 400kHz

Note 2: Bipolar operation

Dimensions



This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc, Würth Elektronik eiSos GmbH have to be informed before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Tiny Push-pull Transformers

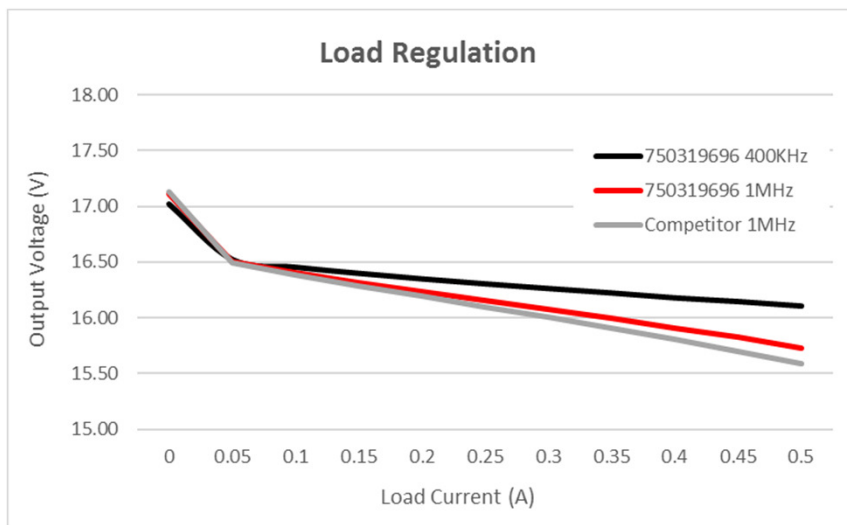
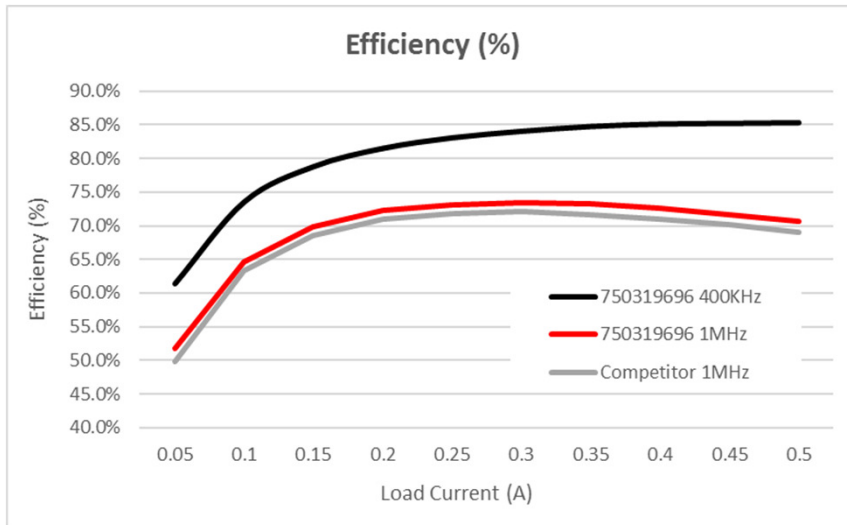
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SN6507 EVM Comparison Testing to Nearest Competitor



Test Setup

- 24V to 15V version from both Würth and Competitor tested
- Used Texas Instruments SN6507 EVM for testing with no component changes
- Competitor part 18% larger volume
- Würth part 10% lower profile
- Used same test setup
- Tested at 1MHz and 400kHz

Test Results

- At 1MHz load regulation and efficiency was slightly better on the Würth part
- At 400kHz the Würth part efficiency is much greater than either part at 1MHz.
- The load regulation was much better at 400kHz than at 1MHz
- Competitor part did not function at 400kHz



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