Tiny Push-pull Transformers
WE-PPTI in size 1308

Surface Mount - SMT

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

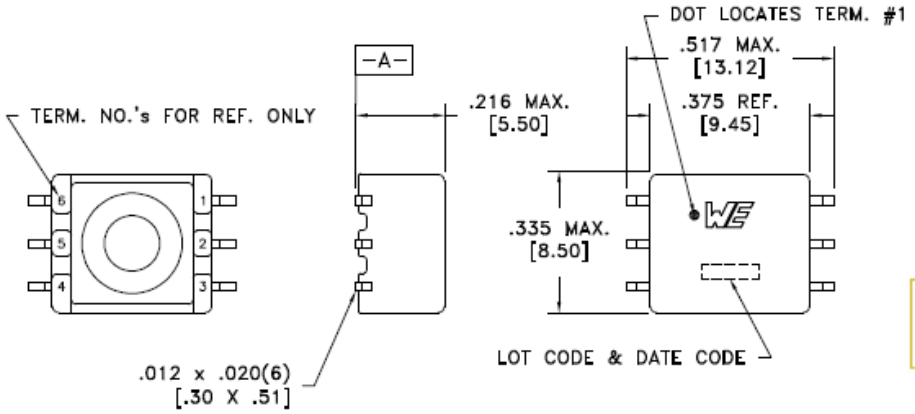
- Solar inverters, protection relays
- Factory automation
- Building automation
- Medical instruments
- Motor drives: IGBT and SiC gate-driver supplies
- Isolated power supply for CAN, RS-485, RS-422,
- RS-232, SPI, I2C, low-power

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_{lkg} 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



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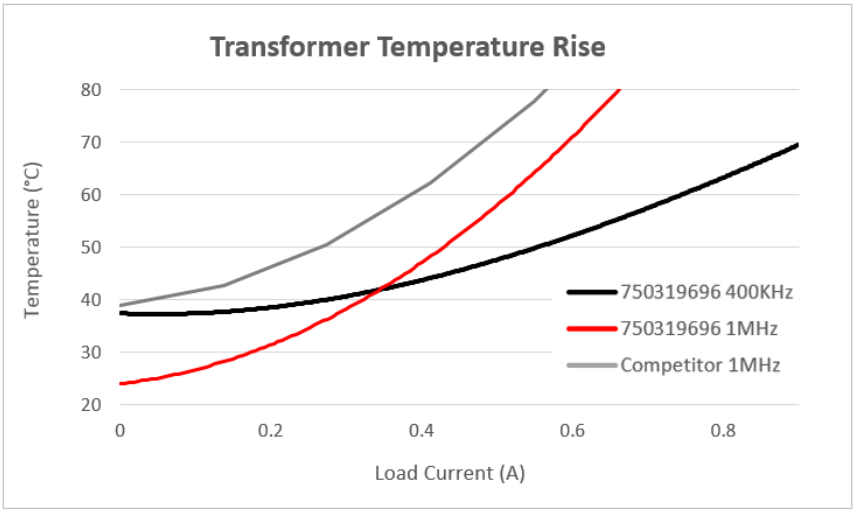
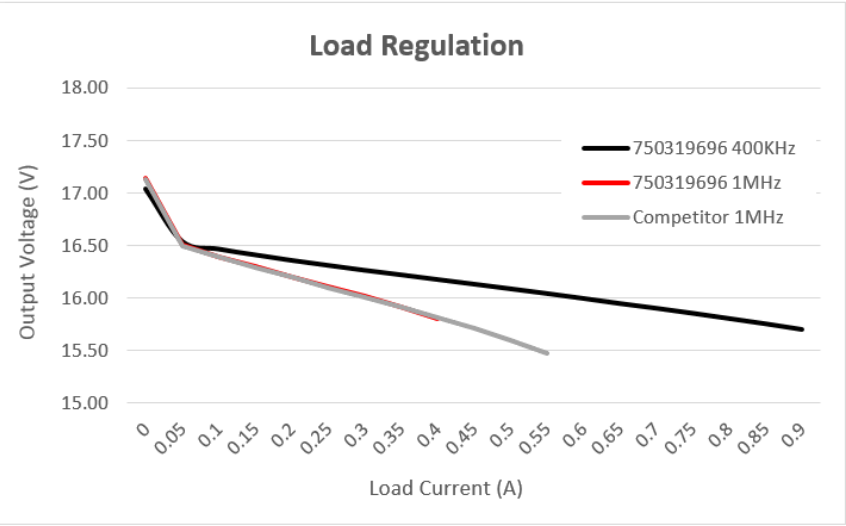
SN6507 EVM Comparison Testing to Nearest Competitor



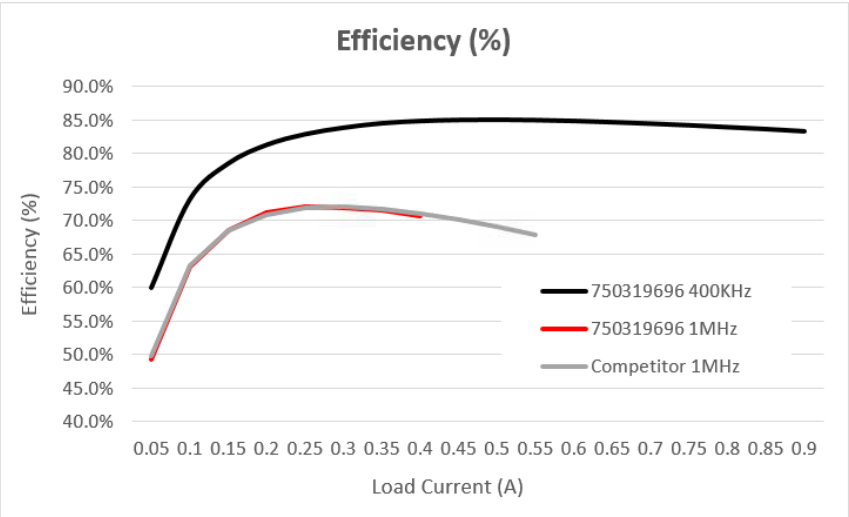
Test Setup

- 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 the Würth part ran much cooler than the competitor
- At 1MHz load regulation and efficiency were the same
- 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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