OWPlanar TransformerFor TI 720 W Full Bridge DC/DC Converter



- Developed for Texas Instruments PMP9219 LM5045 Based 720 W Power Converter
- Designed to operate at 400 kHz with 36 75 V input
- 1500 Vrms, one minute isolation from primary to secondary windings
- Listed as T2 on Texas Instruments BOM-PMP9219

Core material Ferrite

Terminations Matte tin over nickel over brass.

Weight 53.9 g Ambient temperature -40°C to +125°C Maximum part temperature +150°C (ambient + temp rise) Storage temperature Component: -40°C to +125°C. Tray packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 16 per tray

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

	Inductance at 0 A ¹ ±30% (µH)	DCR max (mOhms)				Leakage inductance	Turns	
Part number		pri	sec	aux1	aux2	max (µH)	pri:sec:aux1:aux2	Output
MA5519-AL	190.8	5.0	1.53	178	178	0.13	6:4:2:2	12 V, 60 A

1. Inductance is measured at 300 kHz, 1.0 Vrms, 0 Adc.

2. Leakage inductance is for the primary, measured with the secondary

shorted

3. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.







Dimensions are in inches



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