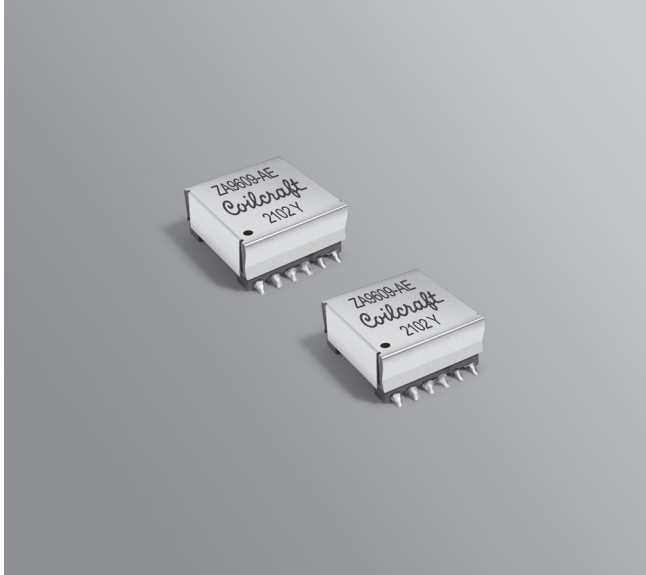




# Active Clamp Forward Transformer ZA9609-AE



- Active Clamp Forward Transformer for PMP22075 for Texas Instruments
- Wide input range 9 – 60 V
- High efficiency in a small package
- Ideal for isolated 60 W applications such as 12 – 48 V PoE Power supply

**Core material** Ferrite

**Terminations** RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 27.5 g

**Ambient temperature** –40°C to +125°C

**Max part temperature** +165°C (ambient + temperature rise)

**Storage temperature** Component: –40°C to +125°C.

Tape and reel 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

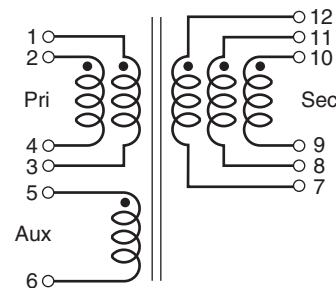
**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging** 24 per tray

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

Part number	Inductance at 0 A <sup>1</sup> ±30% (µH)	Leakage inductance max (µH) <sup>2</sup>	DCR max (Ohms)			Turns ratio Pri : Sec : Aux	Isolation <sup>3</sup> (Vrms)	Power (W)	Output <sup>4</sup>
			Pri	Sec	Aux				
ZA9609-AE	113.9	0.10	0.0137	0.0138	0.24	1 : 1.57 : 1.57	1500	60	12 V, 5 A

1. Inductance is for the primary, measured at 250 kHz, 0.1 Vrms, 0 Adc.
  2. Leakage inductance is for the primary and is measured with all secondary windings shorted.
  3. 1500 Vrms, one minute isolation (hipot) from primary to secondary.
  4. Output is for the secondary. Aux winding output is 12 V, 50 mA.
  5. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Connect pin 1 to 2, 3 to 4, pin 7 to 8 to 9, and pin 10 to 11 to 12 on the PC board



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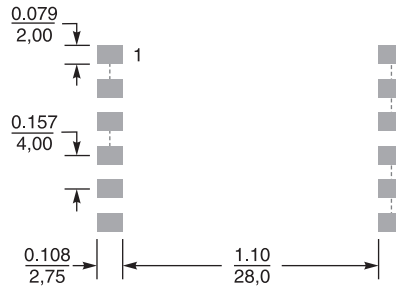
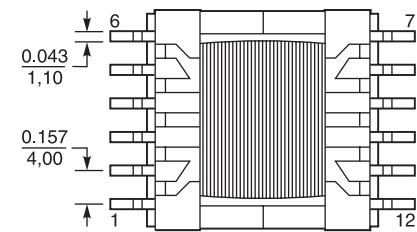
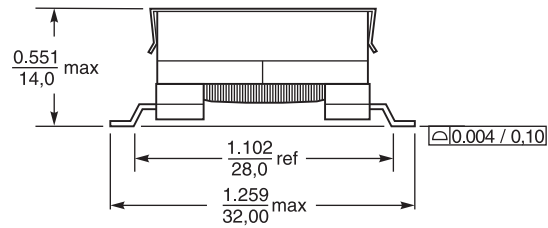
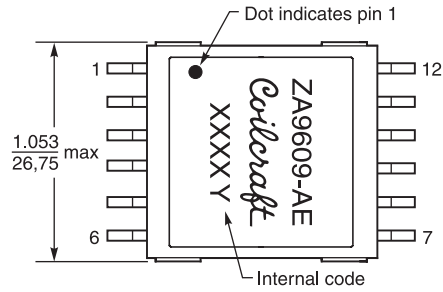
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# Active Clamp Forward Transformer – ZA9609-AE



### Recommended Land Pattern

Connect pin 1 to 2, 3 to 4, pin 7 to 8 to 9, and pin 10 to 11 to 12 on the PC board

Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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