

Forward Mode Transformer For Maxim MAX17599 PWM Controller



- Forward mode transformer for the Maxim MAX17599 Active Clamp Current-Mode PWM Controller
- 18 36 V input; 12 V, 3.3 A output
- 1500 Vrms, one minute isolation from primary to secondary and gate windings
- Specified on reference design MAXREFDES48#

Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze

Weight 10.5 g

Ambient temperature -40°C to +85°C

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 175 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick,

28 mm pocket spacing, 11.9 mm pocket depth PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Part number ¹	Inductance at 0 A ² min (µH)	DCR max (mOhms)			Leakage inductance	Turns ratio		
		pri	sec	gate	max (µH)	pri : sec	pri : gate	Output ³
RA6999-AL_	57.6	20.5	29.5	36.4	0.35	1:1.125	1:0.375	12 V, 3.3 A

1. When ordering, please specify a packaging code:

RA6999-ALD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is measured at 250 kHz, 0.1 Vrms.

3. Output is for the secondary winding. Output of the gate winding is 4 V, 0.25 A

4. Electrical specifications at 25°C.

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





US +1-847-639-6400 sales@coilcraft.com UK +44-1236-730595 sales@coilcraft-europe.com Taiwan +886-2-2264 3646 sales@coilcraft.com.tw China +86-21-6218 8074 sales@coilcraft.com.cn Singapore + 65-6484 8412 sales@coilcraft.com.sg

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Gate

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information