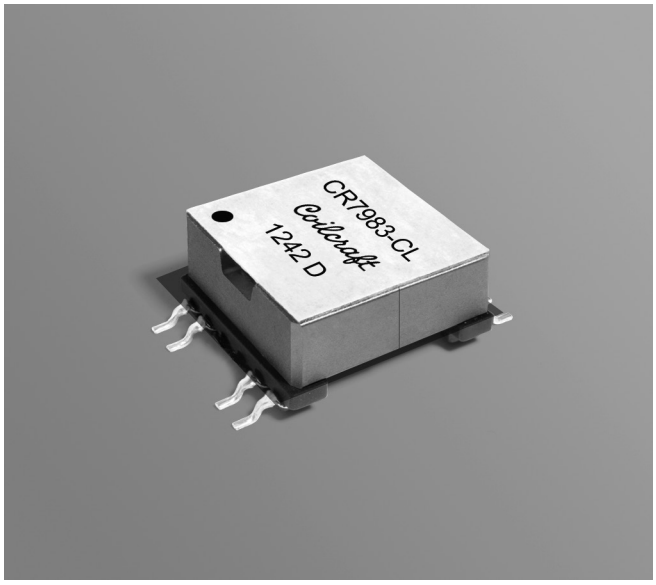
Isolation Transformers

For Analog Devices ADuM4070 Isolated Switching Regulator



- Developed to work with Analog Devices ADuM4070 Isolated switching regulator with integrated feedback
- Power rating: 2 Watts
- 5000 Vrms, one second isolation from primary to secondary.

Core material Ferrite

Terminations Tin-silver-copper over tin over nickel over phos bronze

Weight 10.1 g

Ambient temperature –40°C to +125°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)

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

Packaging 175 per 13″ reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 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[2] min (µH)	Turns ratio	Pri / output voltages pri	output (pin 5)	output (pins 6 & 8)	output (pin 7)	DCR max (Ohms)[3] pri	sec	Leakage inductance[4] max (µH)	Volt-time product[5] (V-µsec)
CR7983-CL_	256	1 : 2	5 V	+3.3 to +15 V	0 V	No output	0.190	0.350	0.75	18.0
CR7984-CL_	256	1 : 3	5 V	+12 to +24 V	+6 to +12 V	0 V	0.170	0.450	0.75	18.0
CR7985-CL_	256	1 : 5	5 V	+5 to +15 V	0 V	–5 to –15 V	0.170	2.00	0.72	18.0

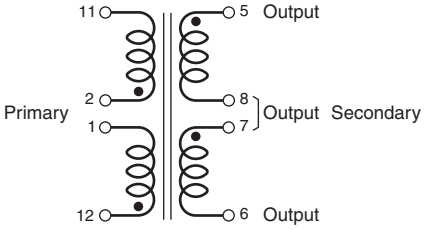
1. When ordering, please specify a **packaging** code:

CR7985-CLD

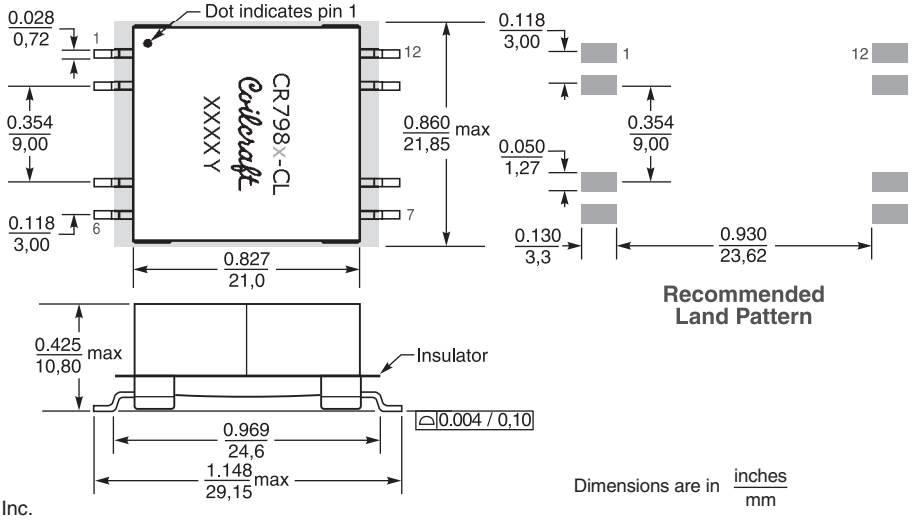
Packaging: D = 13″ machine ready reel. EIA-481 embossed plastic tape (175 per full reel).
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is for the primary, measured from pins 12–11 at 1 kHz, 0.1 Vrms.
3. DCR is for each winding of the primary and secondary.
4. Leakage inductance is for the primary windings, measured from pins 12–11 with all secondary windings shorted.
5. Based on V_{IN} max, F_{SW} min and number of primary turns
6. Electrical specifications at 25°C.

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



Primary windings and secondary windings to be connected in series on the PC board.



Dimensions are in inches / mm

Analog Devices is a trademark of Analog Devices, Inc.

Coilcraft
www.coilcraft.com

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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