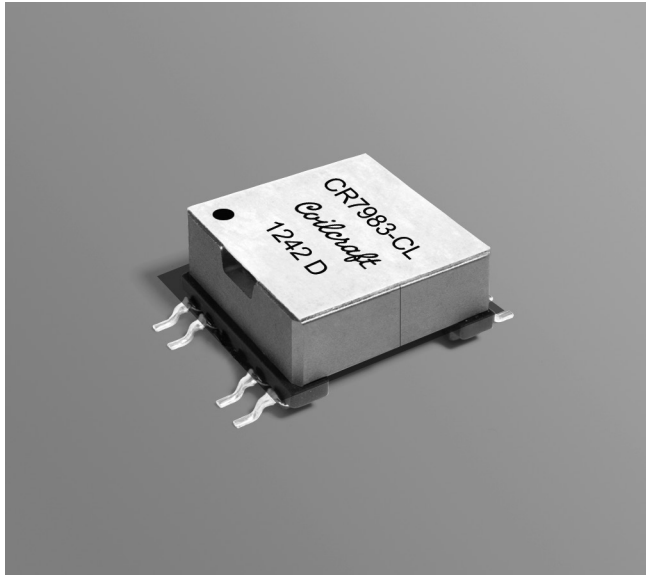


# Isolation Transformers

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 <sup>1</sup>	Inductance <sup>2</sup> min (µH)	Turns ratio	Pri / output voltages				DCR max (Ohms) <sup>3</sup>		Leakage inductance <sup>4</sup> max (µH)	Volt-time product <sup>5</sup> (V-µsec)
			pri	output (pin5)	output (pins 6 & 8)	output (pin 7)	pri	sec		
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.

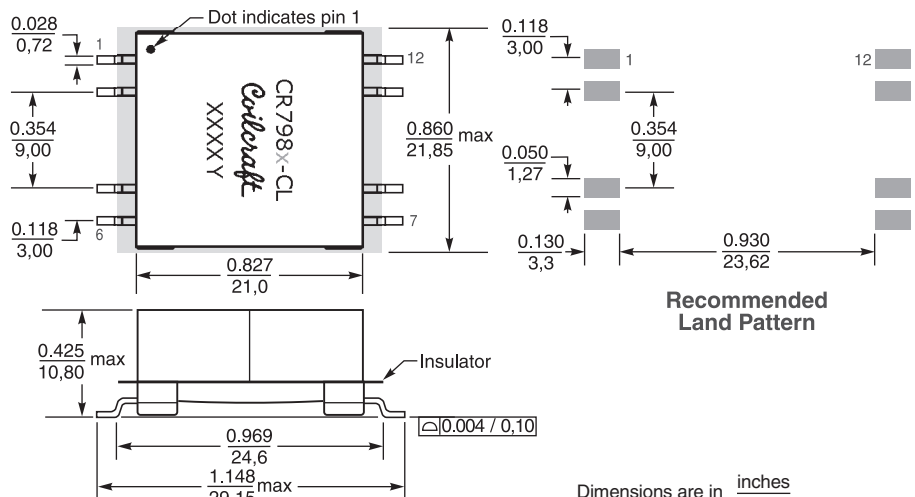
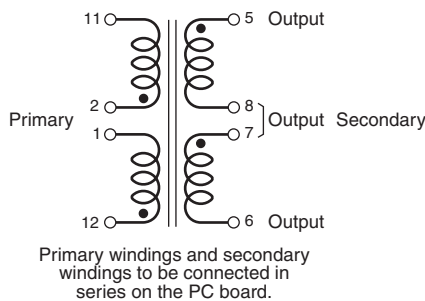
3. DCR is for each winding of the primary and secondary.

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.



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