

CRITCHLEY 9010

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A compact encapsulated line isolating transformer, UL and BSi certified. Tested and approved in accordance with the requirements of EN41003: 1997, EN60950: 1992 (IEC950), EN60065: 1994 and AS/NZS 3260:1993 (BSi Certificate Nos. 7082 and 7456), UL1459, UL1950 and CAN/CSA 234-M90 (E171368 [M]).

ELECTRICAL SPECIFICATION

DC Resistance:
 Primary 100Ω ± 15%
 Secondary 100Ω ± 15%

O/C Inductance:
 measured @ 250mV
 200Hz >8H
 2000Hz >2.3H
 4000Hz >1.5H

O/C AC Resistance:
 measured @ 250mV
 200Hz >5KΩ
 2000Hz >32KΩ
 4000Hz >50KΩ

Leakage Inductance:
 200Hz - 4000Hz
 27.5mH max.

Harmonic Distortion:
 200Hz, -3dBm on primary,
 600Ω load on secondary.
 2f: -83dB max.
 3f: -83dB max.
 TDdBm: -80dBm max.

Insertion Loss:
 200Hz - 4000Hz
 (600Ω ref., 600Ω load)
 2.3dB max.

Frequency Response:
 200Hz - 4000Hz
 (600Ω ref., 600Ω load)
 ± 0.7dB max.

Return Loss:
 300Hz - 4000Hz
 >22dB (when using
 recommended circuit).

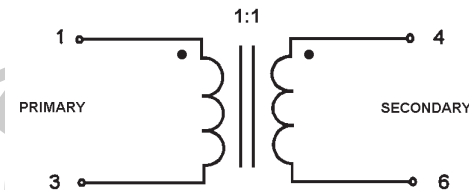
Max. DC current 0mA

ENVIRONMENTAL & SAFETY SPECIFICATION

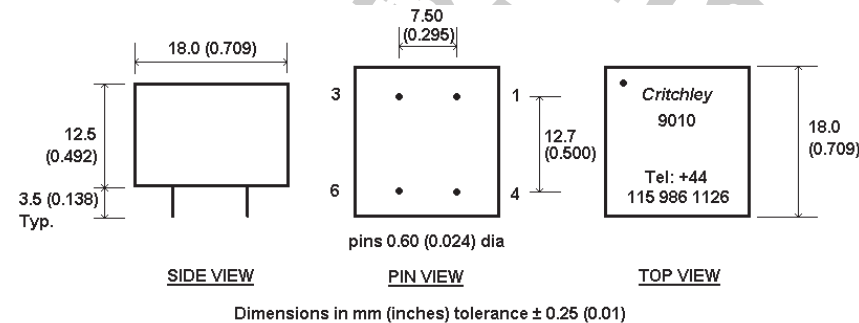
Voltage Breakdown: Tested according to
 EN60950 part 5.3.2.
 (test voltage: 3000 Volts).

Storage temperature: Tested to IEC 68-2-14:1984
 test procedure Nb.
 (temperature range -25°C to +85°C).

CIRCUIT SCHEMATIC

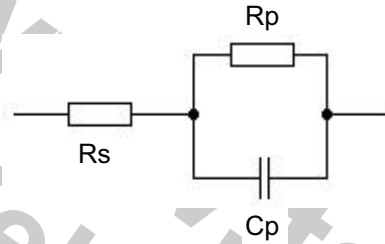


MECHANICAL SPECIFICATION

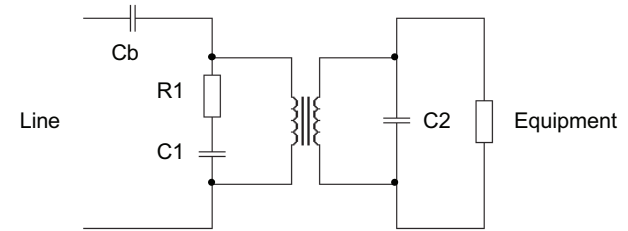


Application Circuits

Reference Impedance (ETS300 001):



Circuit description:



Country	Ref. Impedance Values			Recommended Circuit Values				
	R _s (Ω)	R _p (Ω)	C _p (nF)	C _b (μF)	R ₁ (Ω)	C ₁ (nF)	C ₂ (nF)	Equipment (Ω)
UK, New Zealand	370	620	310	10	300	95	75	750
Pan European (TBR 21)	270	750	150	10	200	100	-	720
Austria, Belgium, Canada, France, Finland, Hong Kong, Ireland, Italy, Japan, Netherlands, Portugal, Singapore, Taiwan, USA		600Ω		10	600	60	25	470

Notes: Country reference networks are subject to change and interpretation. The above is intended as an initial reference and should you require more information for a network not shown please contact your local sales office. Software models are available on disk for all components.