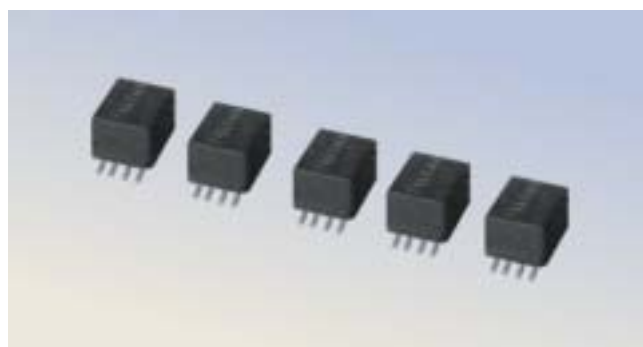




ISDN - S₀ Miniature Interface Transformer

Features

- designed for optimum compatability with all established interface IC's
- excellent and consistent balance between windings
- miniature surface mount package
- complies fully with CCITT.I.430 recommendations and corresponding national standards for S-Interface
- manufactured in ISO-9001.2000 approved Talema facility
- operating temperature: 0 to 70°C



Electrical Specifications @ 25°C

Standard Packaging: Tape and Reel

Surface Mount S₀ Interface Transformers

Part Number	L _N (mH Min)	Turns Ratio	L _L (μH Max)	C _C (pF Max)	R _{CU} P (Ohms)	R _{CU} S (Ohms)	V _P (Vrms)
ISJ-100B	25	1 : 1	2.0	60	3,8	3,8	1500
ISJ-140B	25	1 : 2	2.0	50	4,0	8,0	1500

Test conditions

Inductance (L₀): Line side windings in series - measurement @ 10kHz, 100mV

Polarity and Turns Ratio: Pins 1 - 2 : 3 - 4 : 5 - 6 : 7 - 8 = ±2%

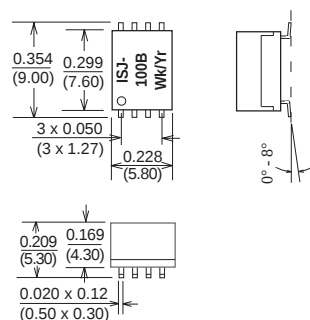
Coupling Capacitance: IC side winding (windings in series) to Line side windings in series @ 10kHz, 100mV

Leakage Inductance: Line side windings in series, IC side winding/s short circuited - measurement @ 100kHz, 100mV

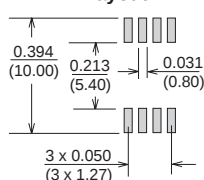
Test Voltage: 1.5kV for 2 Sec. - Line side windings in series to IC side windings in series

Coplanarity: ±0.004(0.10mm)

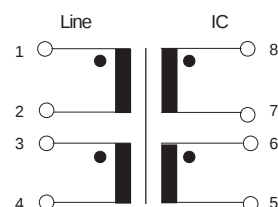
Dimensions



Suggested Pad Layout



Schematic



Surface Coplanarity will be 0.004(0.10)

Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise

Sales & Marketing, Design and Manufacturing Facilities

<http://www.talema-nuvotem.com>

Eastern Europe & Czech Republic

NT MAGNETICS s.r.o.
Chebská 27
322 00 Plzeň
Tel: Int. + 420 37 - 744 9303
Fax: Int. + 420 37 - 744 3697
Email: talema@talema.cz

Germany

TALEMA ELEKTRONIK GMBH
Sembdnerstr. 5, Postfach 2523
82110 Germering
Tel: Int. + 49 89 - 841 00 - 0
Fax: Int. + 49 89 - 841 00 25
Email: info@talema.de

Ireland

NUVOTEM TEO.
Crollý
Co. Donegal
Tel: Int. + 353 74 - 954 8666
Fax: Int. + 353 74 - 954 8139
Email: info@nuvotem.com

India

TALEMA ELECTRONIC PVT. LTD.
Opposite the SIDCO Industrial Estate
Gins Towers
4/5S.H/1, Omalur Main Road
Salem - 636 004, Tamil Nadu
Tel: Int. + 91 427 - 244 1325
Fax: Int. + 91 427 - 243 0034
E-mail: talema@talemaindia.com

Germany: Int.+4989-841 00-0 • Ireland: Int.+35 375-48 666 • Czech Rep: Int.+420 19-744 9303 • India: Int.+91 427-387 492

<http://www.talema-nuvotem.com>

(03-04) ISJ Series