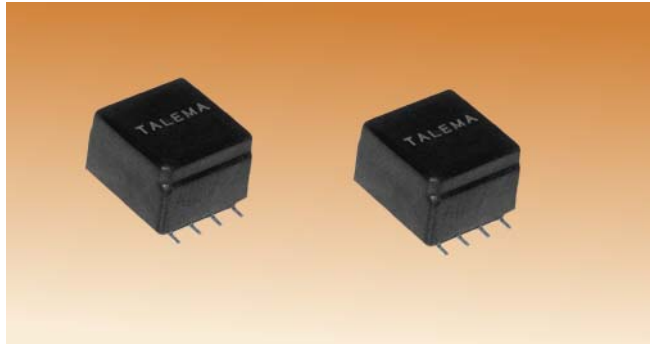




**Features**

- designed for optimum compatability with all established interface IC's
- excellent and consistent balance between windings
- compact size in surface mount package
- complies fully with all international standards for U-Interface
- manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- operating temperature -40° to +85°C
- fully RoHS compliant and meets lead free reflow level J-STD-020C



**Electrical Specifications @ 25°C**

Turns Ratio: **Bold** = IC Side Windings

U <sub>PO</sub> Interface Transformer								
Complies with Basic Insulation Level EN6-950, UL1950 and UL1459								
Part Number	Turns Ratio ±2%	L <sub>P</sub> (mH Min)	I <sub>DC</sub> (mA)	L <sub>L</sub> (µH)	C <sub>C</sub> (pF Max)	DCR (Ohms per winding)		V <sub>P</sub> (Vrms)
						Pri	Sec	
UMJ-190S	1:1:1:1	1.7	75	10	180	0.8	0.8	1500
UMJ-192S	1:1:1: <b>25:1,25</b>	1.7	75	5	140	0.5	1.0	1500
UMJ-195S	1:1: <b>2:2</b>	1.7	75	10	180	0.8	1.6	1500

**Test Conditions:**

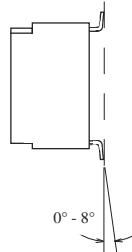
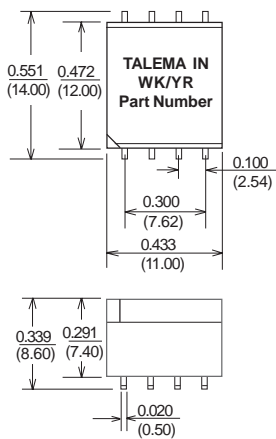
Inductance: Line side windings in series - measurement @ 10kHz, 100mVrms

Leakage Inductance: Line side windings in series, IC side windings short circuited - measurement @ 100kHz, 100mVrms

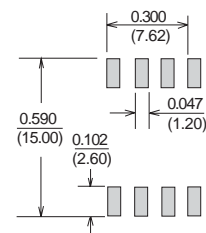
Coupling Capacitance: IC side windings in series to Line side windings in series @ 10kHz, 100mVrms

Test Voltage: 1,5kV - Line side winding in series to IC side winding in series

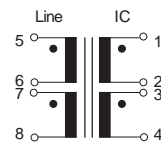
**Dimensions & Schematic**



**Suggested Pad Layout**



**Schematic**



Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise

Surface Coplanarity will be 0.004(0.10) maximum

**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