

MUJ Series • ISDN S₀ Miniature SMD Interface Modules

Features

- Excellent output characteristics ensure compliance with CCITT.I.430 pulse waveform template when used with recommended IC pairing
- SMD modules are designed for pick and place compatability
- Excellent and consistent balance between windings
- Modular design maximizes suppression effectivity and transmission properties
- Full compatibility with all common IC's
- Manufactured in ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant and meets lead free reflow level J-STD-020F
- Operating temperature: -40° to 85°C
- Storage temperature: -40 to +125°C



Electrical Specifications @ 25°C

Turns Ratio: Bold = IC side windings

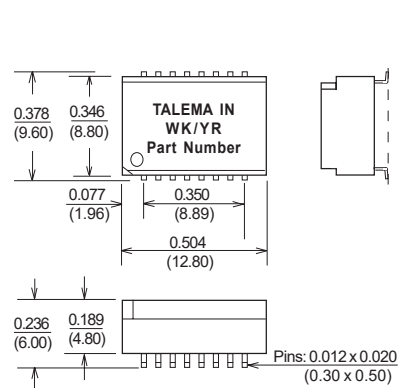
Miniature Chip SMD Modules comply with Basic Insulation Level EN60950, UL1950 and UL1459

Part Number	L _P (mH Min)	Turns Ratio	L _L (μH Max)	C _C (pF Max)	R _{CU} P (Ohms)	R _{CU} S (Ohms)	V _P (Vrms)	Schematic
MUJ-100A or B-XXX	25	1:1: 1:1	5	50	2.7	3.3	1500	A or B
MUJ-103A or B-XXX	25	1:1: 2:2	5	50	3.7	8.4	1500	A or B
MUJ-105A or B-XXX	25	1:1: 2.5:2.5	5	50	5.2	10.5	1500	A or B

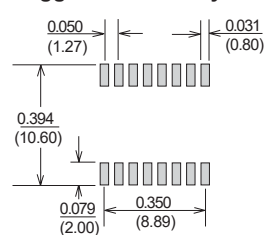
Common Mode Quad Choke

Basic P/N + Suffix	L _N (μH)	R _{CU} (Ohms)	Basic P/N + Suffix	R _{CU} (Ohms)	Basic P/N + Suffix	R _{CU} (Ohms)
MUJ-100A-000	No Choke		MUJ-103A-000	No Choke	MUJ-105A-000	No Choke
MUJ-100A or B-500	50	0.4	MUJ-103A or B-500	0.5	MUJ-105A or B-500	0.7
MUJ-100A or B-101	100	0.5	MUJ-103A or B-101	0.6	MUJ-105A or B-101	0.9
MUJ-100A or B-501	500	0.4	MUJ-103A or B-501	0.6	MUJ-105A or B-501	0.8
MUJ-100A or B-502	5000	0.8	MUJ-103A or B-502	0.9	MUJ-105A or B-502	1.5

MUJ Miniature Module



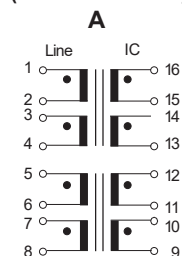
Suggested Pad Layout



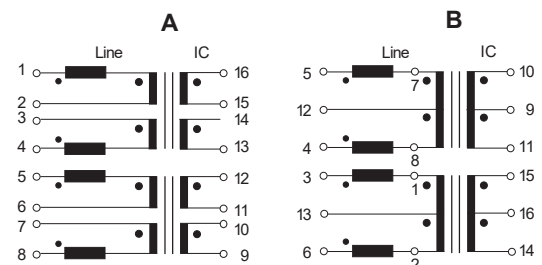
Test Conditions:

- Polarity and Turns Ratio: ±1%
- Inductance: 25mH minimum, line side windings in series @10KHz/1000mV
- Leakage Inductance: Line side windings in series, IC side windings short circuited - measurement @ 100KHz/100mV
- Coupling capacitance: IC side windings in series to Line side windings in series @ 10KHz/100mV
- Common Mode Choke Inductance: 100KHz/20mV
- Test Voltage: 1.5kV for 2 Sec. - Line side windings in series to IC side windings in series

Schematic (Without Choke)



Schematics - With Quad Choke



Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25)

unless specified otherwise

Surface Coplanarity will be 0.004 (0.10)

Packing Method: Tape and Reel; Qty/Reel: 600 Pcs

Regional Locations - Design, Manufacturing, Sales & Marketing

Talema Group Regional Offices

North America

United States (Sales & Marketing)

Talema Group, LLC
PO Box 935
900 Innovation Drive
Suite 120, Rolla
Missouri 65402
Tel: +1 573-303-3675
E-Mail: sales@talemagroup.com
Web: www.talema.com

Asia

India (Design, Manufacturing, Sales & Marketing)

Administrative Office
Talema Electronic India Private Limited
Door No. 221, 1st and 2nd Floor
KJ Plaza, Opp.to Vidya Mandir School
Meyanoor Main Road
Salem - 636 004 Tamil Nadu INDIA
Tel: +91 427 - 243 3100
Fax: +91 427 - 243 3109
E-Mail: talema@talemaindia.net
Web: www.talema.com

Factory Premises
Talema Electronic India Private Limited
Plot Nos. 30, 31 Electrical and Electronic
Industrial Estate
Suramangalam
Salem - 636 005 Tamil Nadu INDIA
Tel: +91 427 - 243 3000
E-Mail: talema@talemaindia.net
Web: www.talema.com

Europe

Germany (Design, Sales & Marketing)

Talema Elektronik GmbH
Sembdnerstr. 5
82110 Germering
Tel: +49 89 - 841 00 - 0
Fax: +49 89 - 841 00 25
E-Mail: info@talema.de
Web: www.talema.com

Ireland (Design, Sales & Marketing)

Nuvotem TEO
Units W & X, Gweedore Business Park
Derrybeg, Letterkenny, Co. Donegal
Tel: +353 (0) 74 95 48666
Fax: +353 (0) 74 95 48139
E-Mail: info@nuvotem.com
Web: www.nuvotem.com

Czech Republic (Design, Manufacturing, Sales & Marketing)

NT Magnetics s.r.o.
Chebská 27
322 00 Plzeň
Tel: +420 377 - 338 351
Fax: +420 377 - 338 350
E-Mail: talema@talema.cz
Web: www.ntmagnetics.cz

Locations of Talema Group Regional Offices

