

These miniature transformers are suitable for pulse applications requiring a very fast rise time and for 50 ohm wideband RF

### Features

- SMD styles are pick and place compatible and provide consistent and reliable coplanarity
- EMI noise suppression in the common mode
- low leakage inductance
- excellent quality at extremely competitive price due to high volume production
- manufactured in ISO-9001 approved Talema facility

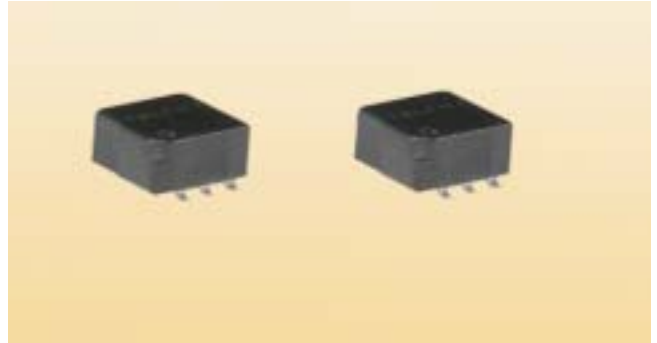
### Electrical Specifications

Ratings @ 25°C ambient

Power Rating : 250mW

Dielectric Strength between windings: 700Vrms

Operating Temperature Range: 0 to +70°C



Storage Temperature: -25°C to +105°C

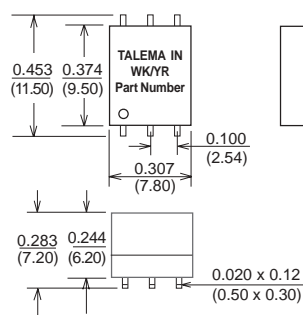
Insulation Resistance: 10,000 MOhm minimum

Test Frequency: Inductance measured @ 100kHz/20mVrms

### TRJ Series • SMD RF Pulse Transformers

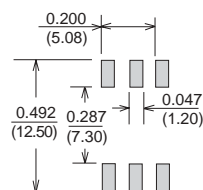
Part Number	OCL ( $\mu\text{H} \pm 30\%$ )	Turns Ratio $\pm 2\%$	$L_L$ Pri/Sec ( $\mu\text{H}$ Max)	$C_C$ Pri/Sec (pF Max)	Rise Time (nS Max)	Primary ET (V- $\mu\text{S}$ Min)	$R_{CuP}$ (mOhms)	$R_{CuS}$ (mOhms)	$R_{CuT}$ (mOhms)	Bandwidth for -3dB Loss Freq. (MHz)		Schematic
										Low	High	
TRJ-20-6A	20	1:4	0.10	10	6.0	1.25	90	360	--	0.20	60	A
TRJ-20-6C	20	1:4ct	0.10	10	6.0	1.25	90	360	--	0.20	60	C
TRJ-40-6A	40	1:2	0.14	15	3.0	2.00	130	260	--	0.10	110	A
TRJ-40-6C	40	1:2ct	0.14	15	3.0	2.00	130	260	--	0.10	110	C
TRJ-40-6D	40	1:1:1	0.10	12	2.0	2.00	130	130	130	0.10	150	D
TRJ-80-6A	80	1:1	0.15	12	2.2	2.50	190	190	--	0.05	110	A
TRJ-80-6B	80	1ct:1ct	0.18	15	3.0	2.50	190	190	--	0.05	90	B
TRJ-80-6C	80	1:1ct	0.18	15	3.0	2.50	190	190	--	0.05	90	C
TRJ-80-6E	80	1:1.414	0.30	18	4.0	2.50	270	270	--	0.05	50	A
TRJ-80-6F	80	1:1.414ct	0.20	18	3.0	2.50	270	270	--	0.05	50	C

### TRJ



Surface coplanarity will be 0.004 (0.01) maximum

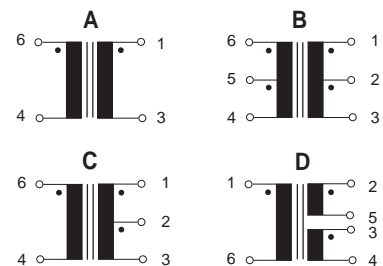
### Suggested Pad Layout



Dimensions: Inches (Millimeters)

Tolerance:  $\pm 0.010$  (0.25) unless specified otherwise

### Schematic



## Design and Manufacturing Facilities

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

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