

DESCRIPTION

The JR200 is a robust trigger transformer designed for triggering spark gaps. The JR201 is physically identical but is tested for use in specific equipment.

FEATURES

- Trigger voltage up to 40 kV
- Fast rise time - pulses up to 30 kV/ μ s
- DC isolation 35 kV
- Flame retardant - resin rated to UL94 V-0
- Polarity identification - positive or negative pulses can be obtained by appropriate connection

ELECTRICAL AND PHYSICAL CHARACTERISTICS (at 20 °C)

All ratings given are absolute and non-simultaneous. It is the equipment designer's responsibility to ensure that they are not exceeded. Typical values given are for e2v technologies' triggered spark gaps.

	Typical	Max	
Input voltage (peak) (see notes 1 and 2)	-	550	V
Input energy (see note 2)	70	150	mJ
Secondary open circuit voltage (peak) (see note 3)	-	40	kV
Rate of rise of output voltage (see notes 4 and 5)	25	<30	kV/ μ s
Pulse repetition rate	5	100	pps
Output current (peak) (see note 3)	1.0	-	A
Voltage transformation ratio	62:1	min	

ENVIRONMENTAL PARAMETERS

Storage temperature	-40 to +100	°C
Operating temperature	-32 to +100	°C
Mechanical shock (half-sine)	981	m/s ²
Vibration (20 to 500 Hz)	96.6	m/s ²
Net weight	300 g approx	

NOTES

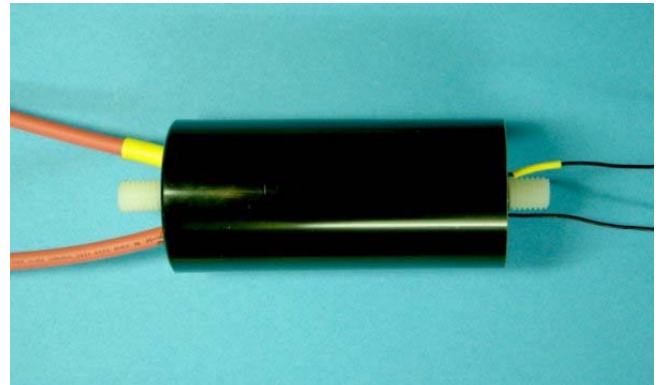
(All notes apply to maximum ratings unless stated)

1. Measured at the primary leads.
2. Input energy is drawn from a 1 μ F capacitor (0.47 μ F capacitor typically).
3. A 10 k Ω wirewound 3 W (minimum) series resistor must be included in the output circuit to protect the secondary winding against excessively high voltage spikes.

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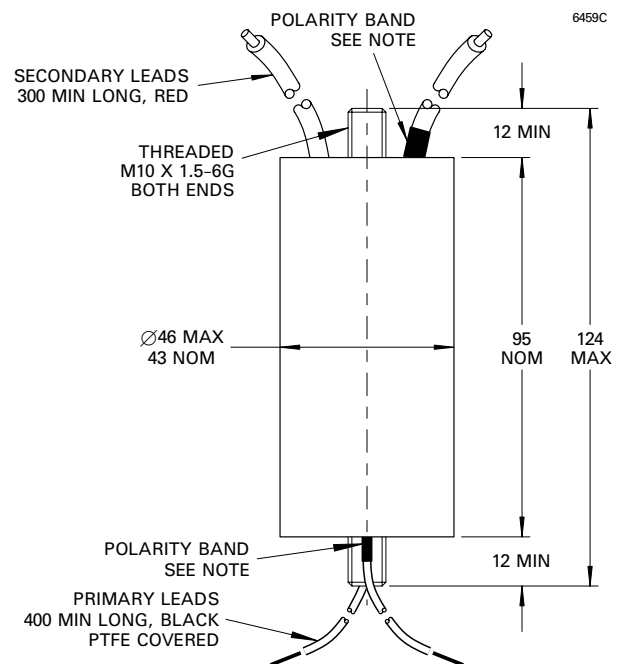
e2v technologies (uk) limited, Waterhouse Lane, Chelmsford, Essex CM1 2QU, UK Telephone: +44 (0)1245 493493 Facsimile: +44 (0)1245 492492
e-mail: enquiries@e2v.com Internet: www.e2v.com Holding Company: e2v technologies plc

e2v technologies inc. 4 Westchester Plaza, PO Box 1482, Elmsford, NY10523-1482 USA Telephone: (914) 592-6050 Facsimile: (914) 592-5148
e-mail: enquiries@e2vtechnologies-na.com



4. Measured at a maximum repetition rate of 100 pps on the unloaded output pulse with a 400 V primary input voltage measured at the primary leads (typically 300 V input voltage, 15 kV/ μ s rate of rise).
5. Average value measured between 25% and 75% of peak voltage.

OUTLINE (All dimensions in millimetres)



Outline Note

A positive pulse on the primary lead identified by the polarity sleeving band results in a positive pulse on the secondary lead identified by the polarity sleeving band.