

DESCRIPTION

The MA2162A is a robust trigger transformer designed for triggering spark gaps.

FEATURES

- Trigger voltage up to 40 kV
- Fast rise time - pulses up to 30 kV/ μ s
- DC isolation 35 kV
- 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)	-	500	V
Input energy (see note 2)	70	125	mJ
Secondary open circuit voltage (peak)	-	40	kV
Secondary impedance (approx.)	-	10	k Ω
Rate of rise of output voltage (see note 3)	0.25	-	kV/ μ s
Pulse repetition rate	5	100	pps
Output current (peak) (see note 3)	1.0	-	A
Voltage transformation ratio	63:1 min		
Output voltage pulse duration	0.5	-	μ s

ENVIRONMENTAL PARAMETERS

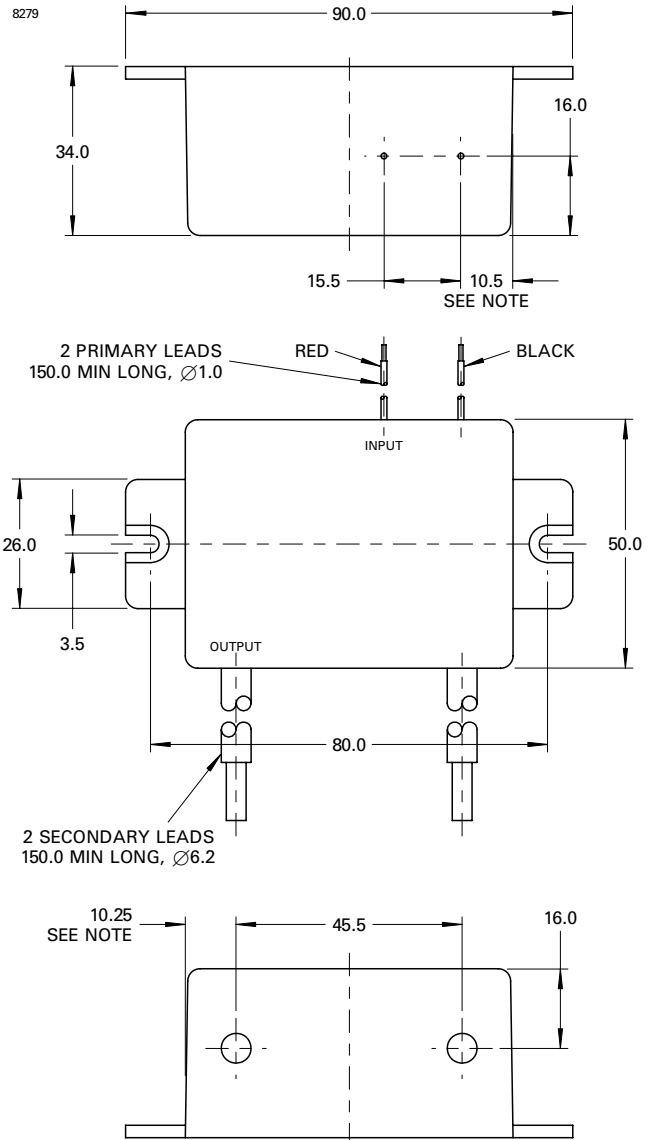
Storage temperature	-40 to +120	°C
Operating temperature	-32 to +120	°C
Mechanical shock (half-sine)	981	m/s ²
Net weight	180 g approx	

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. Average value measured between 25% and 75% of peak voltage.

OUTLINE (All dimensions in millimetres; dimensions without limits are nominal)



Outline Note

Measured from base side junction.

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