



ELECTRONIC TUBE REFERENCE

RI12

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MECHANICALVACUUMSWITCH

Dry reed switch for sealed mechanical switching. Magnetic actuation closes or opens reed contacts without gas-discharge or thermionic operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 MechanicalVacuumSwitch

No fixed ratings recorded.

Source is a dry reed switch rather than a vacuum tube; electrical switching characteristics are preserved as parameters.

Hermetically sealed miniature dry reed switch with normally open contacts. This is an electromechanical component rather than a vacuum tube; the source is retained as supplied and its electrical switching limits and timing characteristics are preserved.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · MechanicalVacuumSwitch

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Switched power	5 W	—
Switched current	100 mA	—
Resonant frequency of single reed approx	1630 Hz	—
perature of [1]	240 °C	—
perature of [2]	10 s	—
Breakdown voltage min	1000 V	—
Insulation resistance, initial (V [1])	100 V	—
Insulation resistance, initial (V [2])	105 MQ	—
L av	0.6 ms	—
Operaring time. including bounce max	1 ms	—
Switched current max	100 mA	—
Hold ampere turns min	27 A	—
Current through closed contacts max	1 A	—
o ' max	130 mQ	—
Release ampere turns max	15 A	—
Release time max	50 us	—
Measured with	80 A	—
Mcasured with	40 A	—
Switched power max	5 W	—
Switched voltage max	65 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Switched current max	100 mA	—
surge (T = max. 100 ns) max	1.5 A	—
b) the release time exceeds	1.5 ms	—
Capacitive loading resulting in a peak current of	1.4 A	—
V, nominal switched current	100 mA	—
Impact : Acceleration 50 g during	11 ms	—
to close, nor a contact kept closed by an	80 A	—
Vibration: Frequency range [1]	50 Hz	—
Vibration: Frequency range [2]	1300 Hz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitance without test coil	0.7 pF	—
p Y with carthed test coil	0.35 pF	—
Non-operative ampere turns max	30 A	—
Operating ampere turns max	58 A	—