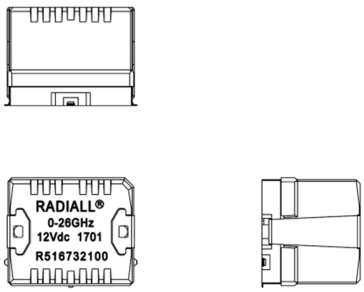
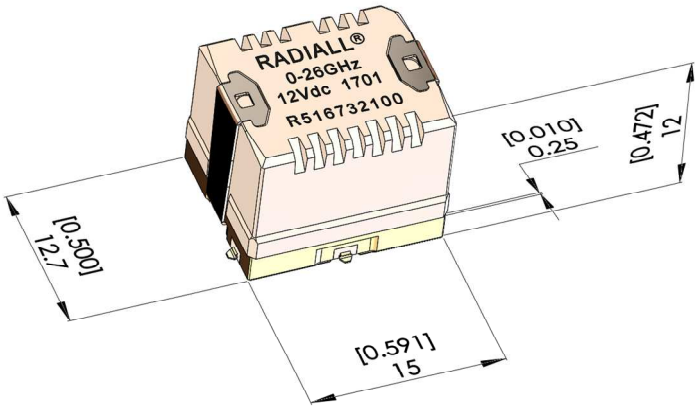
## R516 series: the RAMSES concept merges with the SLIM LINE technology, breaking up the frequency limits of SMT switches :

- **FULL SMT TECHNOLOGY COMPATIBLE**
- High frequency
- High life span
- High repeatability
- High power applications

(All dimensions are in mm [inches])




***ACTUAL SIZE***




***TYPICAL OUTLINE DRAWING***

PART NUMBER SELECTION

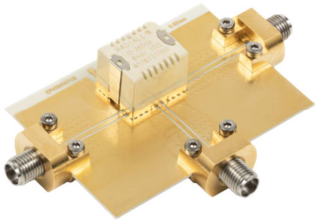
**R 516 _ _ _ 1 0 _**

**Frequency range :**
**3 : DC – 8GHz**
**4 : DC – 18GHz**
**7 : DC – 26.5GHz**

**TYPE :**
**3 : Latching, 2 coils**

**ACTUATOR VOLTAGE :**
**1 : 6Vdc**
**2 : 12Vdc**
**3 : 24Vdc**

**Actuator terminals :**
**0 : Not soldered**
**T : Soldered on a connectorized test fixture (1)**

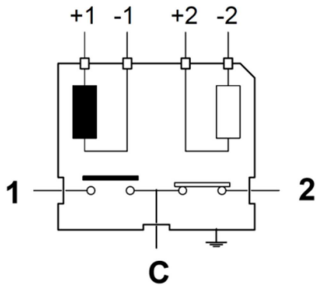


(1) See details about test fixture RF characteristics on page 3

GENERAL SPECIFICATION

| | | | | |
|---|---|---|---|---|
| **Operating mode** | | **Latching (Type 3)** | | |
| **Nominal operating voltage (Vdc)** (across operating temperature range) | | **6 (on request)** (5.1 to 6.6) | **12** (10.2 to 13) | **24** (20.5 to 30) |
| **Coil resistance (+/-10%) (Ohms)** | | 55 | 205 | 865 |
| **Operating current at 23°C (mA)** | | 108 | 58 | 32 |
| **RF and command ports** | | gold plated access, infrared reflow, forced air oven or hand soldering (Compatible with “lead free” soldering processes) | | |
| **Switching time (Nomial voltage)** | **Making contacts** | Max 5ms, including contact bounce time | | |
| | **Breaking contacts** | 3ms | | |
| **Life** | **Cold switching (Max 120 cycles/min)** | 3 million cycles (5 million cycles typical at low level) | | |
| | **Hot switching (Max 20 cycles/min)** | 500.000 cycles (1W, impedance 50Ω , V.S.W.R. <1.25) | | |
| **Insulation** | | Dielectric test voltage | 300Vrms | |
| | | Insulation resistance at 500Vdc | > 100MOhms | |
| **Environmental protection** | | “LEAD FREE » construction” Waterproofness according to IEC 60529 / IP64 | | |
| **Mass** | | 8g | | |
| **Operating temperature range (°C)** (With no icing nor condensation) | | - 40 to +85 | | |
| **Storage temperature range (°C)** | | -55 to +85 | | |
| **Shocks** (According to MIL STD 202, method 213B, Cond C) | | 100g / 6ms, ½ sine No change of state | | |
| **Sine vibration** (MIL STD 202, method 204) | | Condition D : 10-2000Hz, 20g Operating | | |

PIN IDENTIFICATION (TOP VIEW)




**Latching model (TYPE 3)**

| Voltage | RF Continuity |
|---|---|
| -1 +1 | C ↔ 1 |
| -2 +2 | C ↔ 2 |