

# 7999-4 Microwave SPDT RS-232 Switch

**CONTACT CONFIGURATION:** Single Pole Double Throw.

**CONNECTOR TYPE:** 3-SMA type connectors (COMMON, NO, NC).

**MAXIMUM SIGNAL:** 120W 3GHz (VSWR 1.15 or less), CAT I.

**CONTACT RESISTANCE:** 0.1Ω max.

**CONTACT LIFE:** **Mechanical:**  $5 \times 10^6$  (at 180cpm).

**Electrical:**  $5 \times 10^6$  (3GHz, 50Ω, VSWR 1.2 at 20cpm).

**MAXIMUM COMMON MODE:** 42V peak, any terminal to earth.

**ACTUATION TIME:** 25ms.

**RELAY CHARACTERISTICS (50Ω):**

Frequency	To 1GHz	1- 4GHz	4- 8GHz	8- 12.4GHz	12.4- 18GHz
VSWR (max)	1.1	1.15	1.25	1.35	1.5
Insertion Loss (dB max.)	0.2	0.2	0.3	0.4	0.5
Isolation (dB min.)	85	80	70	65	60

## GENERAL

**INTERFACE:** RS-232 control (9600 baud, 8 data, 1 stop). Response terminator selectable (CR, LF, CRLF, LFCR).

**INDICATORS:** Power, relay position status.

**ENVIRONMENT: Operating:** 0° to 40°C, up to 35°C <80% RH.

**Storage:** -25° to 65°C.

**POWER CONSUMPTION:** 6.5W.

**WARRANTY:** 1 year.

**EMC:** Conforms with European Union Directive 89/336/EEC, FCC part 15 class B.

**SAFETY:** Conforms with European Union Directive 73/23/EEC.

**DIMENSIONS:** 109mm long × 112mm wide × 59mm deep (4.3" × 4.4" × 2.3").

**ACCESSORIES SUPPLIED:** AC/DC power adapter (100-120VAC/220-240VAC, 50 or 60Hz) with line cord, user and service manual.