

15 Million cycles

SPDT Switch

MSP2T-18

DC to 18 GHz

Features

- low insertion loss, 0.2 dB
- high isolation, 70 dB
- high power handling, 10W
- ultra reliable
- break-before-make configuration
- reflective failsafe switch
- patent pending



CASE STYLE: FK811

Connectors	Model	Price	Qty.
SMA	MSP2T-18	\$119.95	(1-9)

Applications

- (ATE) automatic test equipment
- reliable "sleep-time" switching
- redundancy switching for microwave radio

Electrical Specifications

FREQ. (GHz)	INSERTION LOSS (dB)		ISOLATION (dB)		VSWR (:1)		DC CURRENT @+24V (mA)		RF POWER* (W)
	Typ.	Max.	Typ.	Min.	Typ.	Max.	Typ.	Max.	Max.
DC-1	0.10	0.15	100	85	1.05	1.10			
1-8	0.20	0.30	90	75	1.20	1.35			
8-12	0.25	0.35	80	70	1.20	1.35	80	115	10
12-18	0.30	0.45	66	60	1.15	1.40			

*Power Ratings at ambient temperature 25°C, non-switching mode.

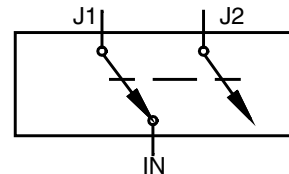
additional specifications

Operating Voltage Range	24V (nom) ±1V
Switching Time (typ.)	20ms
Operating Temperature	-15°C to +45°C
Life† (Min.)	10 million cycles
Impedance	50 ohms
Nominal Weight	41 grams

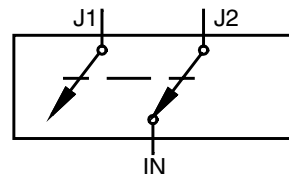
† tested at 0 dBm RF power

switching states

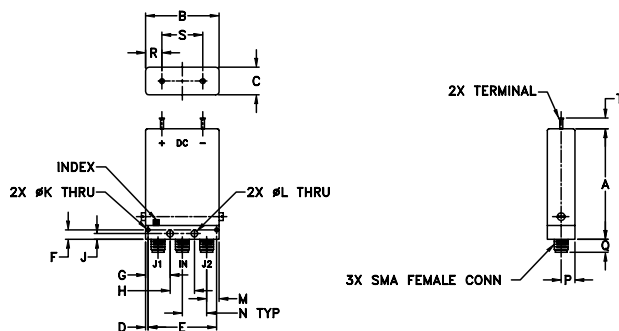
DE-ENERGIZED DC=0V



ENERGIZED DC=24V



Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K
2.00	1.33	.50	.045	1.240	.170	.445	.440	.103	.070
50.80	33.78	12.70	1.14	31.50	4.32	11.30	11.18	2.62	1.78
L	M	N	P	Q	R	S	T	wt.	
.120	.227	.440	.25	.24	.297	.740	.19	grams	
3.05	5.77	11.18	6.35	6.10	7.54	18.80	4.83	41	

REV. F
M99389
ED-8697/4
YB/RS
060117



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified