


MODEL
2303-SK
SPDT REFLECTIVE SWITCH MODULE
WITH TTL DRIVER 2 - 18 GHz

T-51-11

2-18 GHz Frequency Coverage
 Internal TTL Driver
 High Isolation
 Hermetic Package

Guaranteed Specifications*
(From -54°C to +85°C)

Frequency Range	2 - 18 GHz	
Insertion Loss	2 - 4 GHz	1.4 dB Max
	4 - 8 GHz	2.0 dB Max
	8 - 12 GHz	2.5 dB Max
	12 - 18 GHz	2.9 dB Max
VSWR	2 - 4 GHz	1.7:1 Max
	4 - 8 GHz	1.8:1 Max
	8 - 12 GHz	1.9:1 Max
	12 - 18 GHz	2.0:1 Max
Isolation	2 - 4 GHz	55 dB Min
	4 - 8 GHz	55 dB Min
	8 - 12 GHz	50 dB Min
	12 - 18 GHz	50 dB Min

Operating Characteristics

Impedance	50 Ohms Nominal
Switching Time**	100 nsec Max
	50 nsec Typ
Input Power for 1dB Compression	
2 - 18 GHz	+13 dBm Typ
Bias Voltage	+5 Vdc @ 75 mA Max
	-12 Vdc @ 50 mA Max
Package Type***	Module (FP-29)
	(See page 478 for dimensions.)

Pin Configuration

RF IN; P8, RF1; P1, RF2; P7, CONTROL 1; P2,
 CONTROL 2; P3, +5 Vdc; P5, -12 Vdc; P6,
 GND; P4

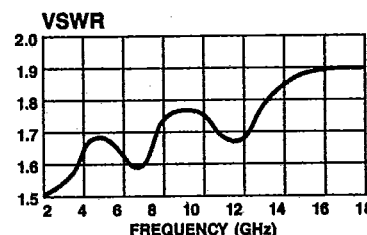
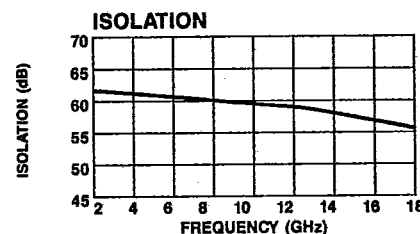
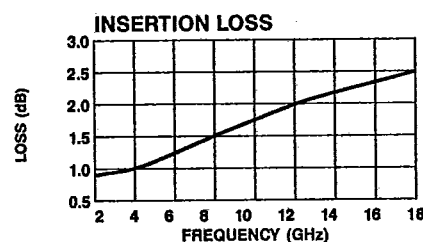
Environmental

All units are designed to meet the environmental and screening requirements of Table 1B, page 497 of this catalog.

*All specifications apply when operated at the recommended bias and 50 ohm impedance at all RF ports.

**See pages 206 and 207 for switching speed definition

***Hermetic

Typical Performance

Truth Table¹

TTL Input	Switch State	
1= HIGH	RF Common to RF Port	
	RF1	RF2
1	ON	OFF
0	OFF	ON

Ordering Information

Model No.	Connectors	Unit Price (5-9 Units)
2303-SK	PIN	\$475

Delivery is from stock.


Make the Connection...

11 Executive Park Drive, Billerica, MA 01862 Fax (508) 667-4156

Adams Russell
 COMPONENTS GROUP

For Technical Information, Call (508) 667-7700

For Ordering Information, Call (617) 273-3333

UNLESS OTHERWISE NOTED:
 .XXX = ± 0.010 , .XX = ± 0.020
 (.X = ± 0.3), (.XX = ± 0.5)
 DIMENSIONS IN () ARE IN MM.

WEIGHT (APPROX.): 2.0 OUNCES 57 GRAMS

WEIGHT (APPROX.): 0.57 OUNCES 16 GRAMS

WEIGHT (APPROX.): 1.25 OUNCES 35 GRAMS

WEIGHT (APPROX.): 0.58 OUNCES 16.5 GRAMS

WEIGHT (APPROX.): 1.25 OUNCES 35 GRAMS

UNLESS OTHERWISE NOTED:

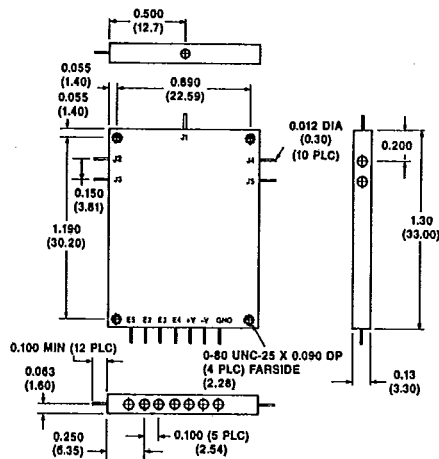
.XXX = ± 0.010 , .XX = ± 0.020 (X = ± 0.3), (XX = ± 0.5)

DIMENSIONS IN () ARE IN MM.

MECHANICAL DATA

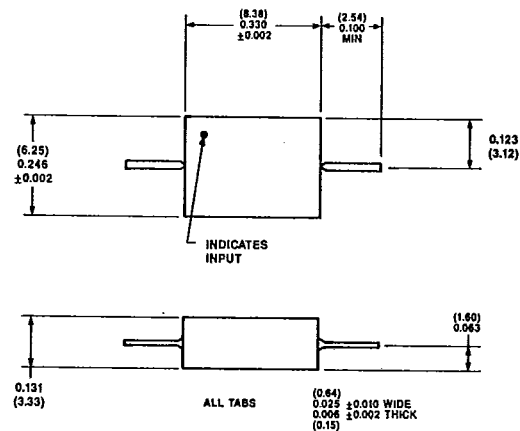
T-90-20

FP-30



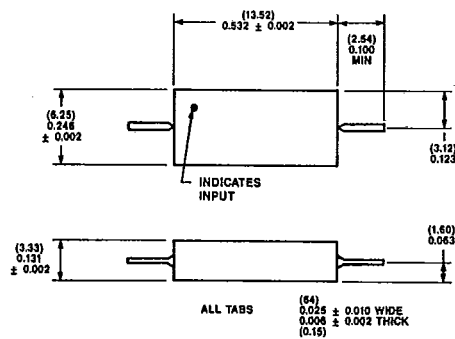
WEIGHT (APPROX.): 2 OUNCES 50 GRAMS

FP-31



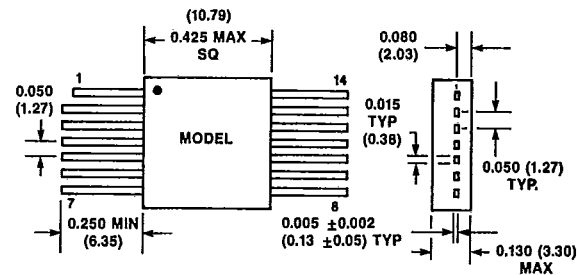
WEIGHT (APPROX.): 0.54 OUNCES 15 GRAMS

FP-32



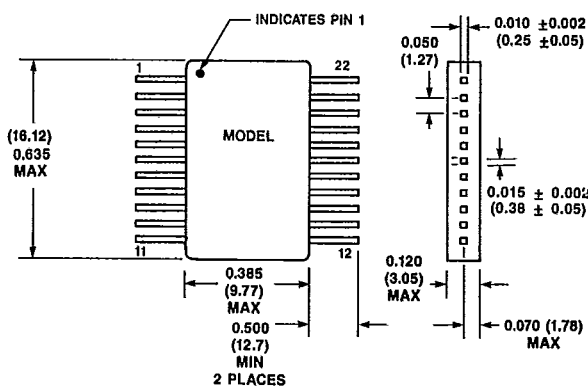
WEIGHT (APPROX.): 0.57 OUNCES 16 GRAMS

FP-33



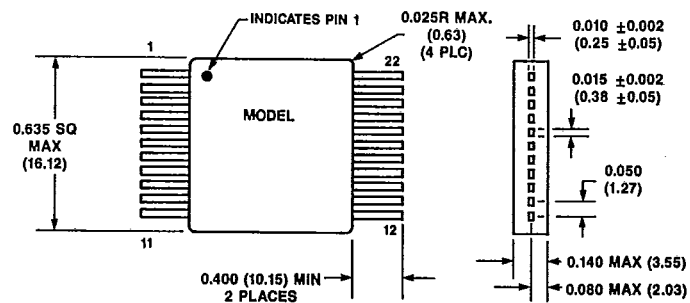
WEIGHT (APPROX.): 1.02 OUNCES 29 GRAMS

FP-34



WEIGHT (APPROX.): 1.07 OUNCES 30 GRAMS

FP-35



WEIGHT (APPROX.): 1.08 OUNCES 31 GRAMS