



HIGH SPEED HIGH POWER WAVEGUIDE SWITCH

SPDT138143N1

FEATURE:

- Solid State,Mixture Integrated
- High Speed,Low Loss,High Isolation Integral with Driver
- Field Removable SMA(F) Connector
- Operating Temperature:-55~+85°C
- Contorl:TTL“0”Loss,TTL“1”Isolation

APPLICATION:

- Test equipment
- Radar&Warfare system
- Communication system

ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	13.4		14.2	GHz
Insertion Loss			0.6	dB
Isolation	40			dB
VSWR			1.2	Ratio
Input Power Peak	3000			watt
Input power Avg	50			watt
Switching Times			3	us
DC Power supply		+15		Volt
DC Power supply		100		mA

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	108*45*55	Max	Millimeter
Weight	200	Max	gram
RF Connectors Input	WR62/BJ140		
RF Connectors output	WR62/BJ140		
Impedance	50		ohms



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TTL CONTROL LOGIC

TTL 0 (low) (0 to 0.8 V) :J0-J1

TTL 1 (high) (2.4 to 4.7 V) :J0-J2

PIN ASSIGNMENT:

PIN	DESCRIPTION	PIN	DESCRIPTION
1	GND	9	GND
2	A	8	TTL1
3	U	7	+15V
4	B	6	TTL2

OUTLINE DRAWING(mm):

TBD