

Reliant
Switch™



DowKey® Microwave
CORPORATION

A DOVER COMPANY

Reliant Switch™

High Repeatability

Design life of
5 Million Cycles



A must for Automated Testing

SPECIFICATIONS

RF CHARACTERISTICS

Frequency (GHz)	DC - 4	4 - 12.4	12.4-18	18-26.5
VSWR (MAX)	1.20:1	1.35:1	1.45:1	1.70:1
Insertion Loss (dB MIN)	0.3 + (0.015 x frequency [GHz])			
Isolation (dB MAX)	100	80	70	65
Impedance (NOMINAL)	50 Ω			
Third Order Intermodulation	-120 dBc typical (2 carriers @ 20 W)			
Insertion Loss Repeatability	.03 dB @ 25°C			

ENVIRONMENTAL

Operating Temperature	-25°C to +75°C
Storage Temperature	-55°C to +85°C
Temperature Cycling	-55°C to +85°C (10 cycles)
Magnetic Field	< 6 Gauss 1/4 inches from any surface

OPTIONS

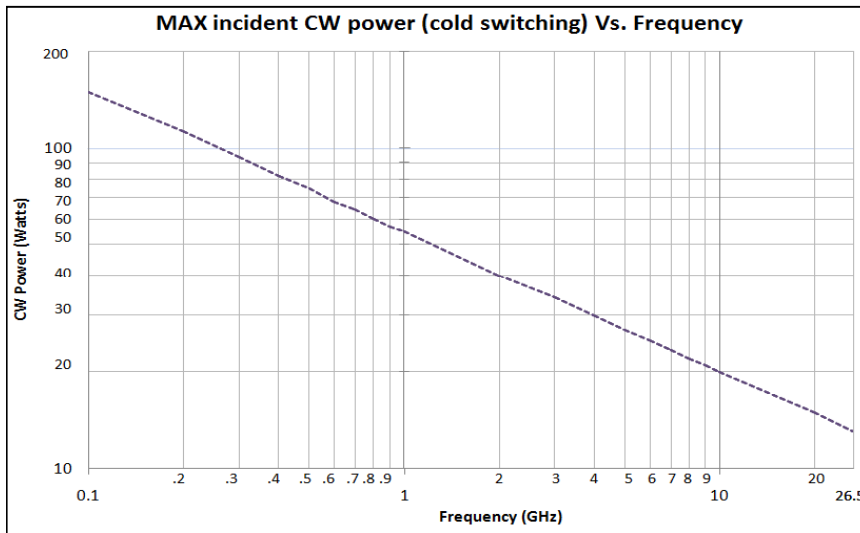
Control	CAN Bus or TTL
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MECHANICAL

Design life (MIN)	5 Million Cycles
Actuator Terminal	HE10 Ribbon Cable
Weight (MAX)	250 g

ACTUATION DATA

Operating Mode	Latching
Internal Termination	50 Ω, 1 W
Operating Voltage	20-32 Vdc (24Vdc Nominal)
Coil Resistance	132 Ω
Operating Current (TYPICAL)	195 mA @ 25°C
Stand-By Current	50 mA
Indicators Specifications	
Maximum withstanding Voltage	60 V
Maximum Current Capacity	150 mA
Maximum <<ON>> Resistance	2.5 Ω
Maximum <<OFF>> Resistance	10 GΩ
Switching Time (MAX)	15 mS



Reference conditions:

- Cold switching only
- Sea level (.88 derating @ 15,000 ft.)
- Ambient temperature of 75 °C or less
- Load VSWR < 1.2

OUTLINE DRAWING

