



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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B10 RF Relays

Test Parameters	Conditions ^{1,2}	Min	B10	Max	Units
			Typ		
Coil Resistance	3.3V Coil	49.5	55.0	60.5	Ω
Nominal Voltage			5.0	4.0	Volts DC
Must Operate Voltage				2.4	Volts DC
Must Release Voltage		0.4			Volts DC
Coil Resistance	5V Coil	135.0	150.0	165.0	Ω
Nominal Voltage			5.0	6.0	Volts DC
Must Operate Voltage				3.8	Volts DC
Must Release Voltage		0.4			Volts DC
Switching Voltage	Max DC/Peak AC			125	Volts
Switching Current				0.25	Amps
Carry Current (Continuous)	Switch and Shield Resistive Load			0.5	Amps
Contact Rating (Resistive Load)				3.0	Watts
Life Expectancy		Signal Switching ³		1000	x 10 ⁶ Ops
	Resistive Load ³		1	x 10 ⁶ Ops	
	Other Load Conditions ³			Consult Factory	
Static Contact Resistance (initial)	0.05VDC / 10mA			0.125	Ω
Dynamic Contact Resistance (initial)	0.5V / 50mA 100 Hz, 1.5 mSec			0.150	Ω
Insulation Res	All Isolated Pins	10 ¹⁰	10 ¹²		Ω
Capacitance	Across Contacts		0.2		pF
Capacitance	Open Contact to Coil		0.5		pF
Capacitance	Closed Contact to Coil		1		pF
Dielectric Strength	Across Contacts	150			V (DC/Pk AC)
	Contact to Coil	1500			V (DC/Pk AC)
	Contact to Shield	1500			V (DC/Pk AC)
Operate Time	(including bounce)	Nominal Voltage coil drive @ 30 Hz, square wave	100	200	μSec
Release Time	(Si diode damped)		30	50	μSec
RF Insertion Loss ⁴	-3 dB roll-off frequency	10.0			GHz
Signal Rise Time	(10% - 90%)			40	pSec
	Corrected for measurement system response time				

NOTES:

¹All parameters specified per EIA/NARM standards for dry reed relays, # RS-421 and RS-436, if a suitable parametric standard exists.

²Unless otherwise noted, all parameters are specified at 25°C and 40% RH.

³Life expectancies based on characteristic life (63.2% failure) calculated from the 2-parameter Weibull distribution. Contact resistance >2.0Ω defines end of life.

⁴Frequency at which the difference between output and input signal amplitude exceeds -3dB. (Direct wired using 50Ω coaxial cable.)

ENVIRONMENTAL RATINGS:

Storage Temperature: -35°C to +100°C.

Operating Temperature: -20°C to +85°C.

Vibration: sinusoidal vibration with an amplitude of 10G over a 10Hz to 2000Hz frequency range shall not cause a closed channel activated at the nominal coil voltage to open, not an open channel to close.
Max Soldering Temperature: 226°C (438°F) max for 1 minute dwell time. Temperature measured at a relay ball termination.