



FR W326

SAW Resonator - Remote Control
Specification (Rev-1)

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March 15th, 2005

Electrical Parameters	Unit	Minimum	Typical	Maximum
Center Frequency (f_c)	MHz	433.845	-	433.995
Tolerance from 433.92 MHz (Δf_c)	kHz	-	-	± 75
Insertion Loss (IL)	dB	-	1.5	2
Quality Factor				
Unloaded Q (Q_u)		-	12.500	-
50 Ω Loaded Q (Q_l)		-	2.000	-
Temperature Stability				
Turnover Temperature (T_0)	$^{\circ}\text{C}$	25	40	55
Turnover Frequency (f_0)	kHz	-	f_c	2.5
Frequency Temperature Coefficient (FTC)	ppm/ $^{\circ}\text{C}^2$	-	0.037	-
Frequency Aging Absolute Value during the First Year [f_A]	ppm/yr	-	≤ 10	
DC Insulation Resistance Between any Two Pins	M Ω	1.0	-	-
RF Equivalent RLC Model				
Motional Resistance (R_M)	Ω	-	19	29
Motional Inductance (L_M)	μH	-	120.311	-
Motional Capacitance (C_M)	FF		2.1240	-
Pin 1 to Pin 2 Static Capacitance (C_0)	pF	1.8	2.1	2.4
Pin Out				
Input	1	Output	2	
Ground	3			

Maximum Ratings

Rating	Unit	Value
Operating Temperature Range	-40 to +85	$^{\circ}\text{C}$
DC Voltage Between Any Two pins	± 30	V_{DC}
CW RF Power Dissipation	+ 10	dBm

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PACKAGE DRAWING

