

FR U659

SAW Resonator – Remote Control
Specification (Rev-1)

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December 17th, 2004

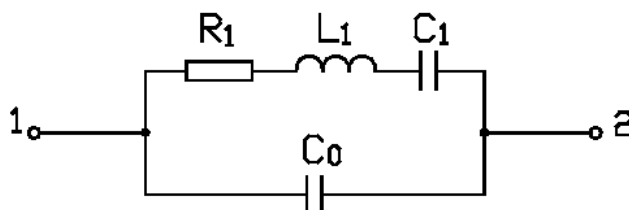
Operating temperature range : [-10°C; +60°C]

Electrical Parameters	Unit	Minimum	Typical ⁽¹⁾	Maximum
Center Frequency (f_c)	MHz	344.930	345.000	345.070
Insertion Loss (IL)	dB	-	1.4	2
Quality Factor				
Unloaded Q (Q_u)		-	12.080	-
50 Ω Loaded Q (Q_l)	dB	-	1.800	-
Temperature Stability				
Turnover Temperature (T_0)	°C	25	-	55
Turnover Frequency (f_0)	kHz	-	f_c	2.5
Frequency Temperature Coefficient (FTC)	ppm/°C ²	-	0.032	-
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	-	17.5	26
Motional Inductance (L_M)	μ H	-	97.6184	-
Motional Capacitance (C_M)	FF		2.1823	-
Pin 1 to Pin 2 Static Capacitance (C_0)	pF	2.3	2.6	2.9
Pin Out				
Input	1	Output	2	
Ground	3			

Maximum Ratings:

- (1) CW RF Power Dissipation 0 dBm
- (2) DC Voltage Between Any two Pins ± 30 V
- (3) Storage Temperature Range [40°C; +85°]

EQUIVALENT RLC MODEL

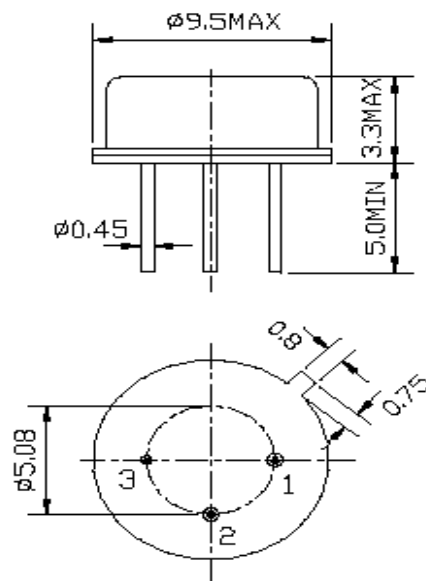


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PACKAGE DRAWING



NOMINAL TRANSFER FUNCTION (MEASUREMENT)

