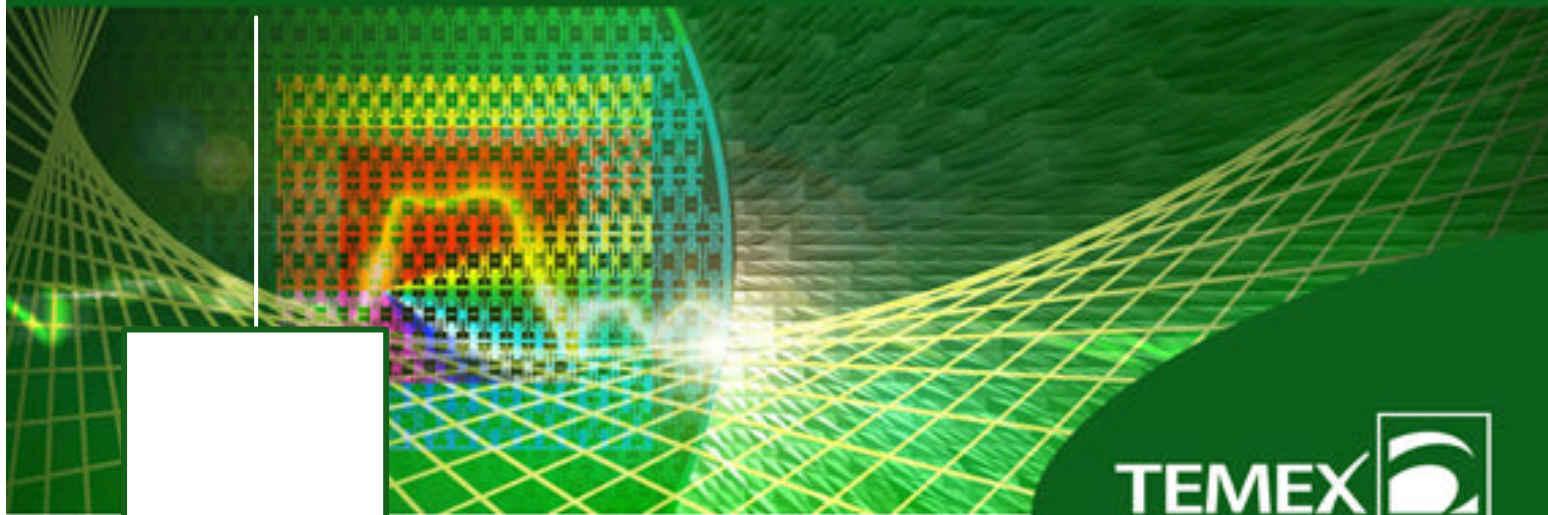


SAW Resonator



FR W339

SAW Resonator – Remote Control
Specification (Rev 2)

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SAW Resonator – Remote Control

Specification (Rev.2)

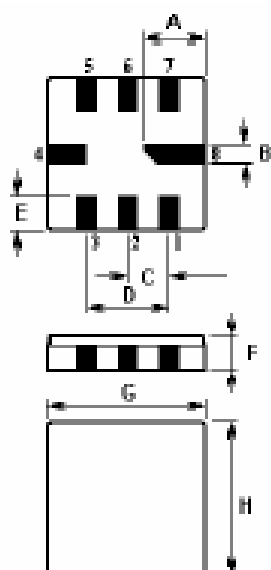
September 25th, 2005

Features

- ☐ SAW Resonator
- ☐ Quartz frequency stabilization
- ☐ Tolerance $\pm 75\text{kHz}$
- ☐ Ceramic package for Surface Mounted Technology

Package Drawing & Pin out

The product is in conformance with the European RoHs Regulation 2002/95.



Dimensions (unit: mm)	
A	2.8
B	0.6
C	1.27
D	2.54
E	1.2
F	1.35
G	5.0
H	5.0

Pin Configuration	
Input	2
Output	6
Case ground	4, 8

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SAW Resonator – Remote Control

Specification (Rev.2)

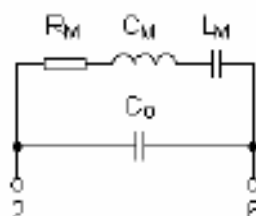
September 25th, 2005

Technical Characteristics

Reference Temperature : +25°C

Electrical Parameters	Unit	Minimum	Typical ⁽¹⁾	Maximum
Center Frequency f_c	MHz	-	315	-
Tolerance from f_c	kHz	-	-	±75
Insertion Loss	dB	-	1.4	2.0
Quality Factor				
Unloaded Q (Q_u)		-	10.750	-
50 W Loaded Q (Q_l)		-	1.6	-
Temperature Stability				
Turnover Temperature (T_0)	°C	25	-	55
Turnover Frequency (f_0)	kHz	-	f_c	-
Frequency Temperature Coefficient (FTC)	ppm/°C ²	-	0.03	-
Frequency Aging Absolute Value during the first Year $ f_A $	ppm/yr	-	< 10	
DC Insulation Resistance Between any Two Pins	MΩ	1.0	-	-
RF Equivalent RLC Model				
Motional Resistance (R_M)	Ω	-	17.5	26
Motional Inductance (L_M)	μH	-	95.0359	-
Motional Capacitance (C_M)	fF		2.6889	-
Shunt Static Capacitance (C_0)	pF	1.8	2.0	2.2

LC Model



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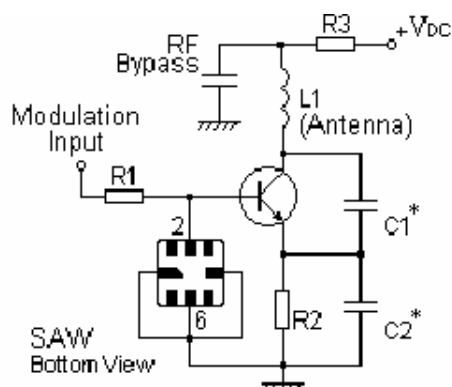
SAW Resonator – Remote Control

Specification (Rev.2)

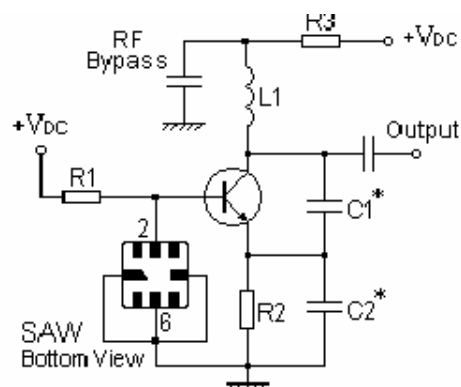
September 25th, 2005

Typical Applications

Low Power Transmitter

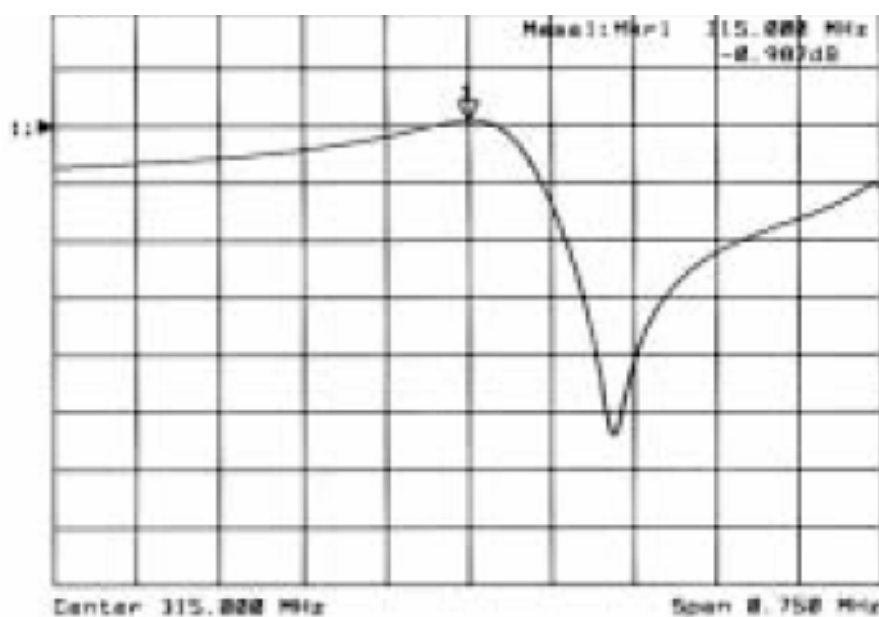


Local Oscillator



Nominal Frequency Response (Measurements)

Frequency Response



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SAW Resonator – Remote Control

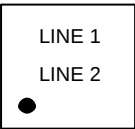
Specification (Rev.2)

September 25th, 2005

Maximum Ratings

Storage Temperature Range	°C	[-40°C ; +85°C]
DC voltage between any two pins	V	± 30
CW RF Power Dissipation	dBm	0

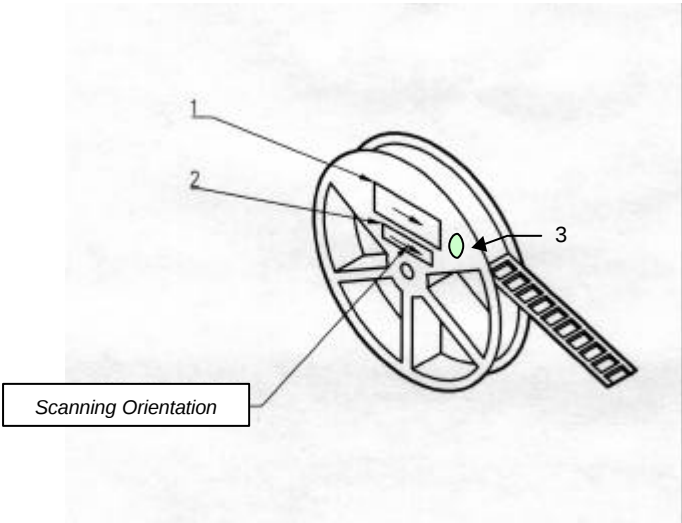
Marking



Line 1: "FR NNNN" is the reference to Temex Part number

Line 2: RYWWZZ is the date code as:
R: Partner identifier.
Y: last digit of the year.
WW: number of week in the year
ZZ: Lot number in the week (from AA to ZZ).

Packaging



- 1 – Temex Label
- 2 – ESD Prevention Label
- 3 – Pb Free Label