

FUJITSU MEDIA DEVICES

SAW RESONATOR
F91SM

APPLICATIONS

Carrier oscillators in RF Modulators for VCR,
BS tuner, CATV, etc.

SYSTEM	NTSC JAPAN [USA]
CHANNEL	11 [13] CH (211.25 MHz)

FEATURES:

- (1) Adjustment free
- (2) Two channels in one Single Inline Package
- (3) Direct fundamental oscillation
- (4) No spurious response
- (5) Small size and light weight
- (6) High reproducibility
- (7) High reliability

ELECTRICAL CHARACTERISTICS
(Ta=25°C unless otherwise noted)

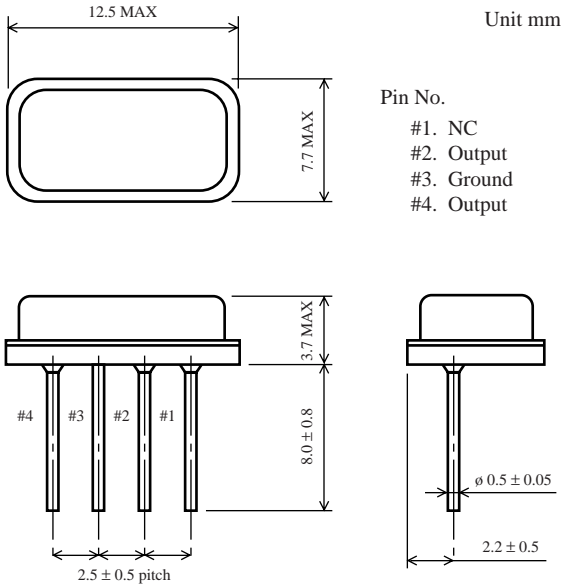
Item	Type	F91SM	Unit
Resonant frequency (1)	f _r	211.22 ± 0.15	MHz
Resonant loss (1)	A _r	1.8 Max.	dB
Parallel capacitance (2)	C _{TE}	2.4 ± 1.0	pF
Temp. coeff. of frequency (-20°C to 70°C)		-18	ppm/°C

Note (1) Measured in a 50-ohm system
(2) Measured at frequency of 1 MHz

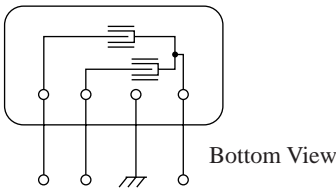
MAXIMUM RATINGS

Operating Temperature -10 to 60°C
Storage Temperature -55 to 85°C
DC Voltage..... 3V
Driving power 0.2mW
Driving current 1.5mA

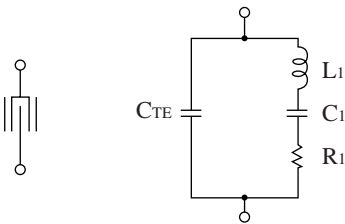
PACKAGE DIMENSION



PIN CONNECTIONS



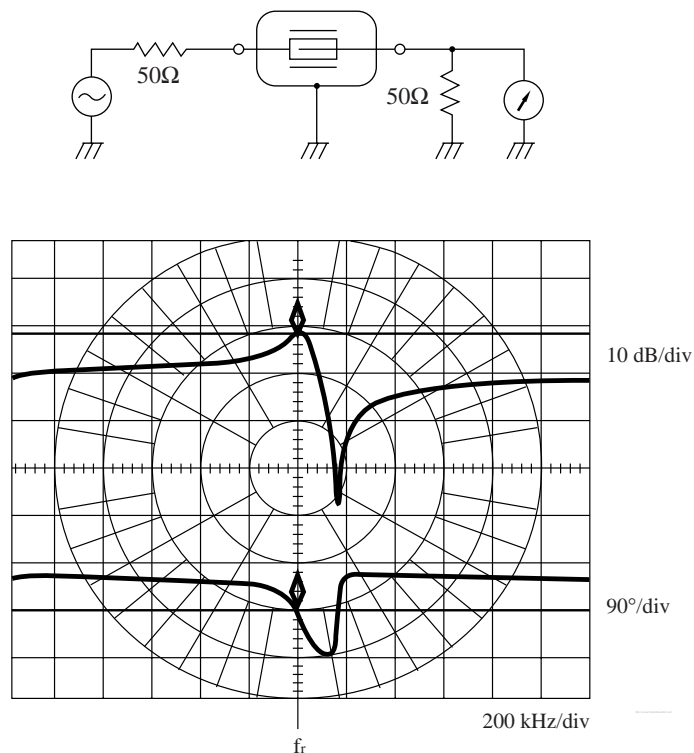
EQUIVALENT CIRCUITS



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TYPICAL FREQUENCY TRANSMISSION CHARACTERISTICS (F81U)

MEASUREMENT CIRCUIT



A MODULATOR CIRCUIT EXAMPLE USING A SAW RESONATOR

