

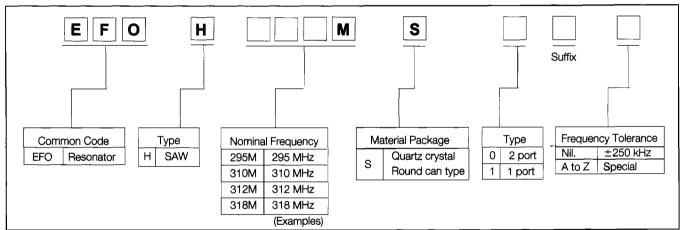
UHF SAW Resonator is capable of fundamental wave oscillation, and it is particularly suited for simplification, size reduction and stabilization of the circuit, compared with conventional LC oscillation and guartz crystal oscillation.

Features

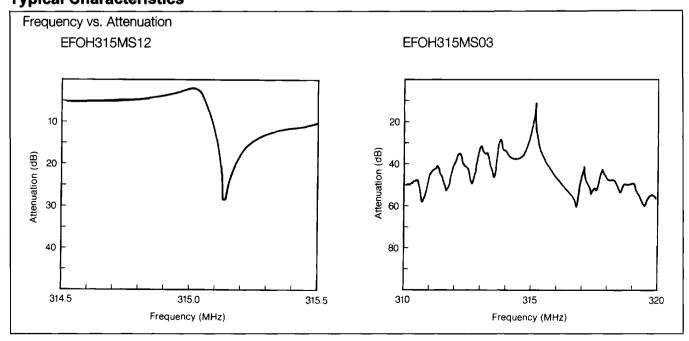
- · Capable of fundamental oscillation.
- Superior temperature characteristics.
- Suited for circuit simplification, size reduction and stabilization.
- Wide frequency range: 200 to 700MHz (Available for requested frequency)



Explanation of Part Numbers



Typical Characteristics



Ratings and Characteristics

(2 port type)

Item					
	Center Frequency	Insertion Loss	Loaded Q	Capacitance	Temperature
Part No.	(MHz)	(dB)		(pF)	Characteristics
EFOH224MS03	224.50±0.25				
EFOH295MS03	295.50±0.25				
EFOH304MS03	303.875±0.250				
EFOH310MS03	310.00±0.25		7000 min.		
EFOH312MS03	312.00±0.25				Maximum
EFOH315MS03	315.00±0.25	15 max.		1.3±0.3	Frequency Drift:
EFOH318MS03	318.00±0.25				-150 to 50 ppm/°C
EFOH407MS03	407.00±0.25				(-20 to 80°C)
['] EFOH418MS03	418.00±0.25				
EFOH434MS03	433.92±0.25		5000 min.		
EFOH458MS03	458.00±0.25				

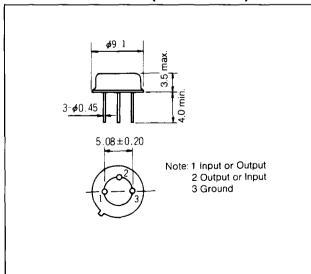
[•]Operating Temperature Range: - 20 to 80°C

(1 port type)

Item	Resonant Frequency	Resonant Resistance	Capacitance	Temperature
Part No.	(MHz)	(Ω)	(pF)	Characteristics
EFOH224MS12	224.50±0.25			
EFOH304MS12	303.875±0.250			
EFOH312MS12	312.00±0.25			Maximum Frequency
EFOH315MS12	315.00±0.25	30 max.	2.0+0.5	Drift: -150 to 50 ppm
EFOH318MS12	318.00±0.25			(-20 to 80°C)
EFOH418MS12	418.00±0.25			
EFOH434MS12	433.92±0.25	_		

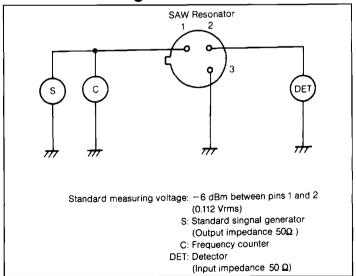
[•] Operating Temperature Range: -20 to 80°C

Dimensions in mm (not to scale)



Notes •Also available are types other than above standard products in the frequency range of 200 to 700 MHz.

Test Circuit Diagram



[•]Other frequency tolerances are available. Please contact us.

[•]Phase shift: 180°

Performance Characteristics (UHF SAW Resonators)

Characteristics		Test Methods		Specifications		
	Shock	Specimen shall be dropped 1 wooden board from height of		(Change after the test shall be within the following range) [2 port type] [1 port type] •CenterFrequency: •Resonant Frequency: ±100 ppm max. ±100 ppm max. • Insertion Loss: •Resonant Resistance: ±2 dB max. ±5Ω max.		
Mechanical	Vibration	The specified single harmonic applied to the specimen to eapendicular direction for 1 hourhours). •Amplitude:0.75 mm/single, (•Sweep frequency and its interpretation of 1	ach of three per- r (for totals of 3 1.5 mm/double) erval: 10 Hz-55			
	Resistance to Soldering Heat	Lead wires of the specimen s up to 3 mm from its neck for solder bath of 350±5°C				
	Robustness of Terminations (Tensile)	Specimen shall be secured by the specified force of 10 N(1.4 applied for 10 seconds in the lead wires.	02 kgf) shall be	No remarkable mechanical or electrical abnormality.		
Environmental	Damp Heat (Steady State)	Specimen shall be subjected of 60±2°C and 90 to 95 %RI and be stored at room tempe before the specified measure	H for 500 hours erature for 1 hour			
	Dry Heat	Specimen shall be subjected of 85±2C for 500 hours and room temperature for 1 hour fied measurements.	be stored at	(Change after the test shall be within the following range) [2 port type] [1 port type] •Center Frequency: •Resonant Frequency		
	Cold	Specimen shall be subjected of -40±3C for 500 hours and room temperature for 1 hour fied measurements.	d be stored at	±100 ppm max. ±100 ppm max.	±100 ppm max. •Resonant Resistance:	
		The specified temperature cy shall be repeated 100 times, room temperature for 1 hour fied measurements.	and be stored at			
	Temperature Cycle	Step Temperature 1 -20±3°C 2 Room Temp. 3 80±2°C 4 Room Temp.	Period 30 minutes 2 to 3 minutes 30 minutes 2 to 3 minutes			