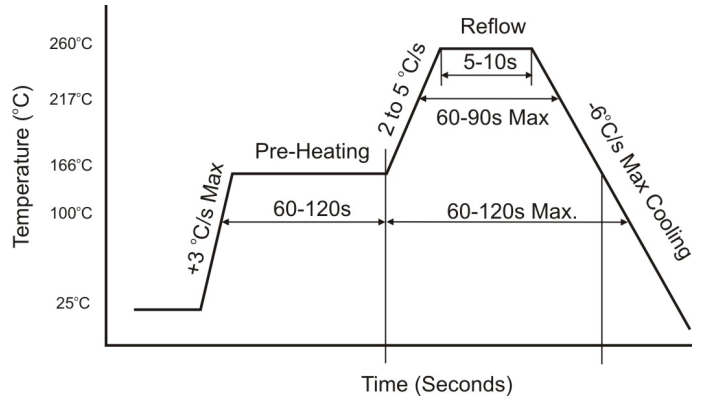


Standard Specifications

Parameter	Symbol	Specification	Remarks
Frequency Range	f_0	8.0 to 150.0 MHz	
Frequency Tolerance	$\Delta f/f$	± 30 PPM (Std)	at 25°C with 100 μ W (Higher tolerances are available)
Frequency Stability	Over OTR	± 50 PPM (Standard)	From ± 10 PPM depending on OTR
Operating Temperature Range	T_{OPR}	-10°C to +60°C	-40°C to +85°C also available
Storage Temperature Range	T_{STG}	-55°C to +125°C	
Load Capacity	C_L	30pF (Std value)	Please specify
Drive-Level	D_L	100.0 μ W Typ.	0.5mW Max
Shunt Capacitance	C_0	5.0pF Typ.	
Dynamic Capacitance	C_1	20.0fF Typ.	
Ageing	Fa	± 5.0 PPM	at 25°C ± 3 °C 1st Year

Frequency Range	Mode	ESR	Reflow Solder Condition (260°C)
8.00 to 9.99 MHz	Fundamental	150 Ω	
10.00 to 11.99 MHz	Fundamental	90 Ω	
12.00 to 14.99 MHz	Fundamental	80 Ω	
15.00 to 29.99 MHz	Fundamental	50 Ω	
30.00 to 39.99 MHz	Fundamental	40 Ω	
40.00 to 51.99 MHz	Fundamental	30 Ω	
40.00 to 79.99 MHz	3rd Overtone	100 Ω	
80.00 to 150.00 MHz	3rd Overtone	80 Ω	



Dimensions (mm)

1000pcs per Reel

Solder Pattern

A	B	C	D	E	F	G	H	I	J	K	L
1.5	4.0	8.0	7.50	12.0	1.3	2.5	13.5	21.0	60.5	178	13.5