

SMD80452P

Features

A small surface-mount type crystal unit, ideal for OA, AV and Accessories for car, which need performance for wide temperature range.

- Compact and thin. (8×4.5×1.8mm typ.)
- Excellent electrical performance, ideal for OA and AV applications.
- Excellent environmental performance, including heat and shock resistance.
- Meets the requirements for re-flow profiling using lead-free solder.



Specifications

项目Item	技术Specifications	备注Remarks
频率范围Freq. Range	4.000MHz to 48.000MHz	Fund. ;AT-Cut
	30.000MHz to 125.000MHz	3 rd O. T. ;AT-Cut
调整频差Freq. Tol.	±20PPm (Standard) at 25℃ ±3℃	Others are offered
负载电容Load Capacitance	Fund. :10pF to ∞ 5pf to ∞	明确注释please specify
Series Resistance	As ESR table	
Storage Temperature	±20PPm (Standard)	可依实际而定Others are offered
工作温度Operaing Temp	-20℃ to 70℃ (Standard)	可依实际而定Others are offered
储存温度Storage Temp	-55℃ to 125℃	
最大值Max, drive level	1000 μW	
建议使用Rec, drive level	10 μW to 100 μW	
静电容 Shunt Capacitance	7pF Max	
绝缘电阻 Insulation Resistance	500mΩ Min	Minimum
老化率Aging	±2PPm/Year Max	Maximum

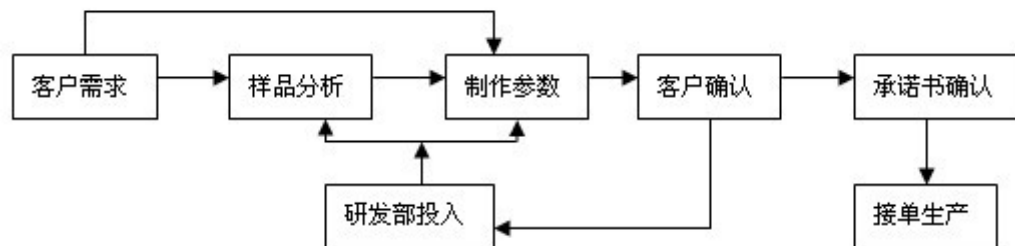
ESR (Series Resistance)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
4.0~15.9	Fund. AT	80	30.0~79.9	3 rd O. T. ;AT	80
16.0~48.0	Fund. AT	40	80.0~125.0	3 rd O. T. ;AT	60

Stability vs. Temperature

★Standard		1	2	3	5	6	7	Remarks
☆Please specify		±10ppm	±20ppm	±30ppm	±50ppm	±100ppm	±150ppm	
B	-10℃ to +60℃	☆				☆		
C	-20℃ to +70℃	☆	★	☆	☆	☆	☆	Standard
D	-40℃ to +85℃		☆	☆	★	☆	☆	
E	-40℃ to +85℃				☆	☆	★	

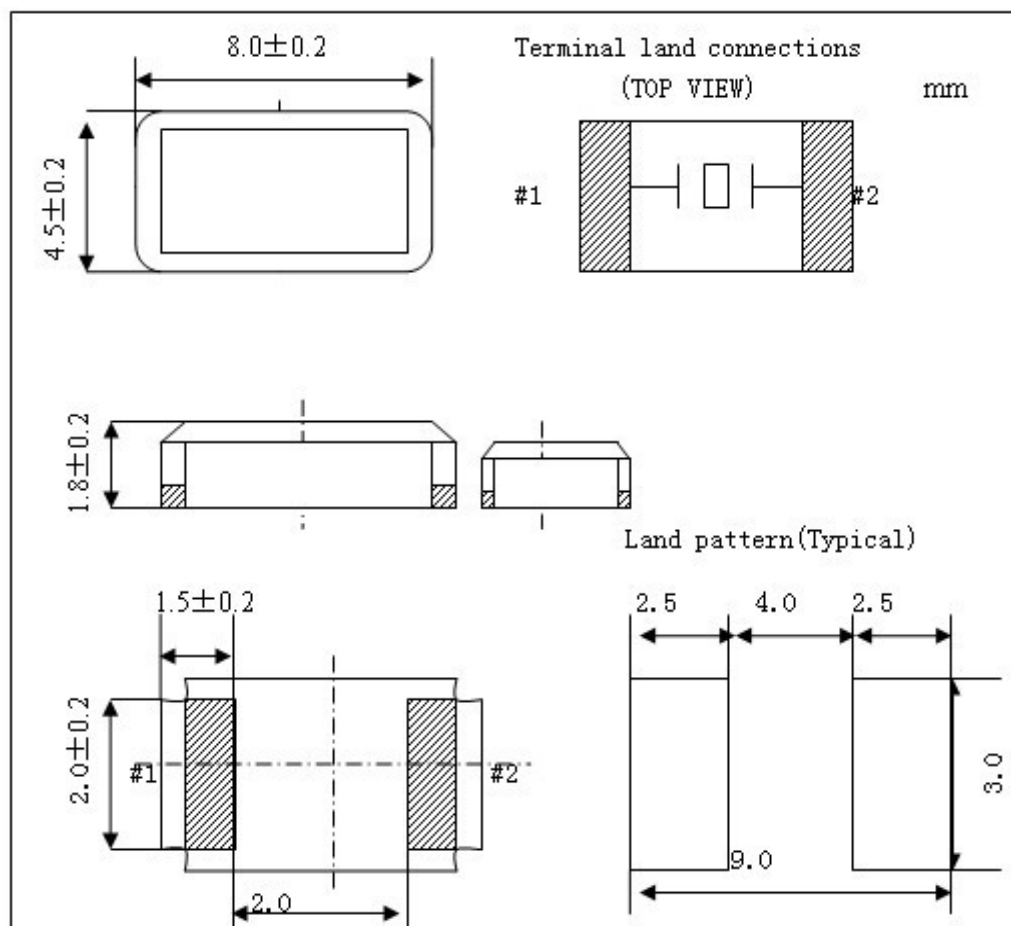
Ordering Information



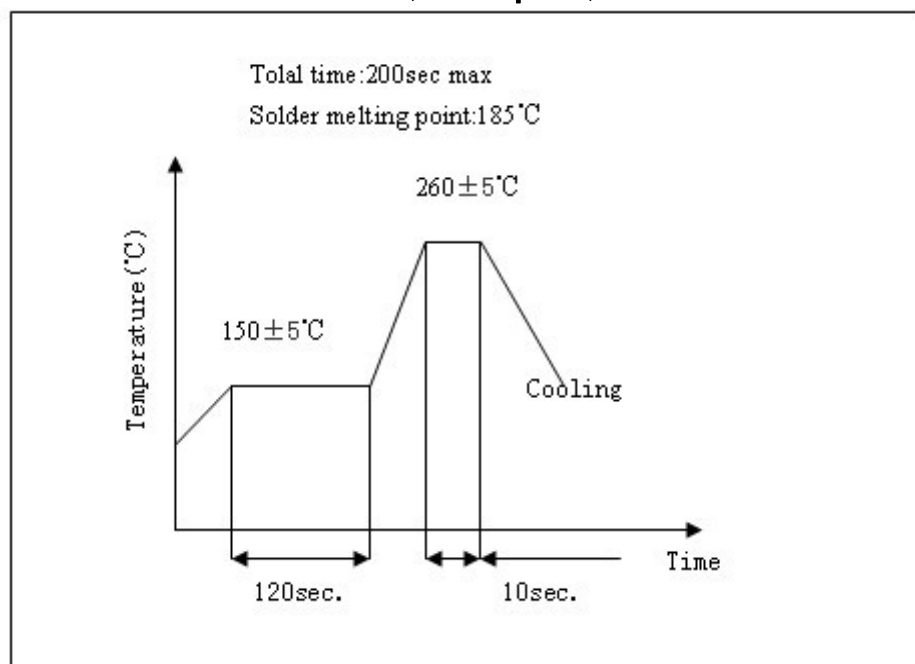
Load Capacitance Codes

7pF: E	8pF: F	9pF: B	10pF: R
12pF: T	15pF: H	16pF: I	18pF: J
20pF: K	22pF: L	25pF: G	27pF: M
30pF: N	32pF: P	33pF: W	Series: S

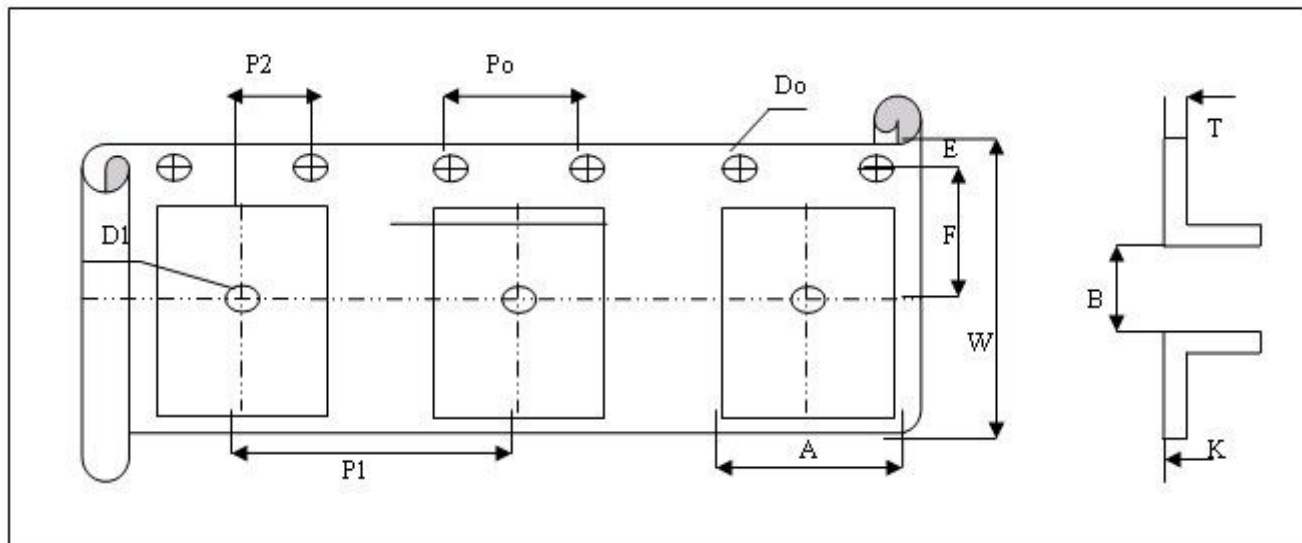
Dimensions



Reflow Condition (example)

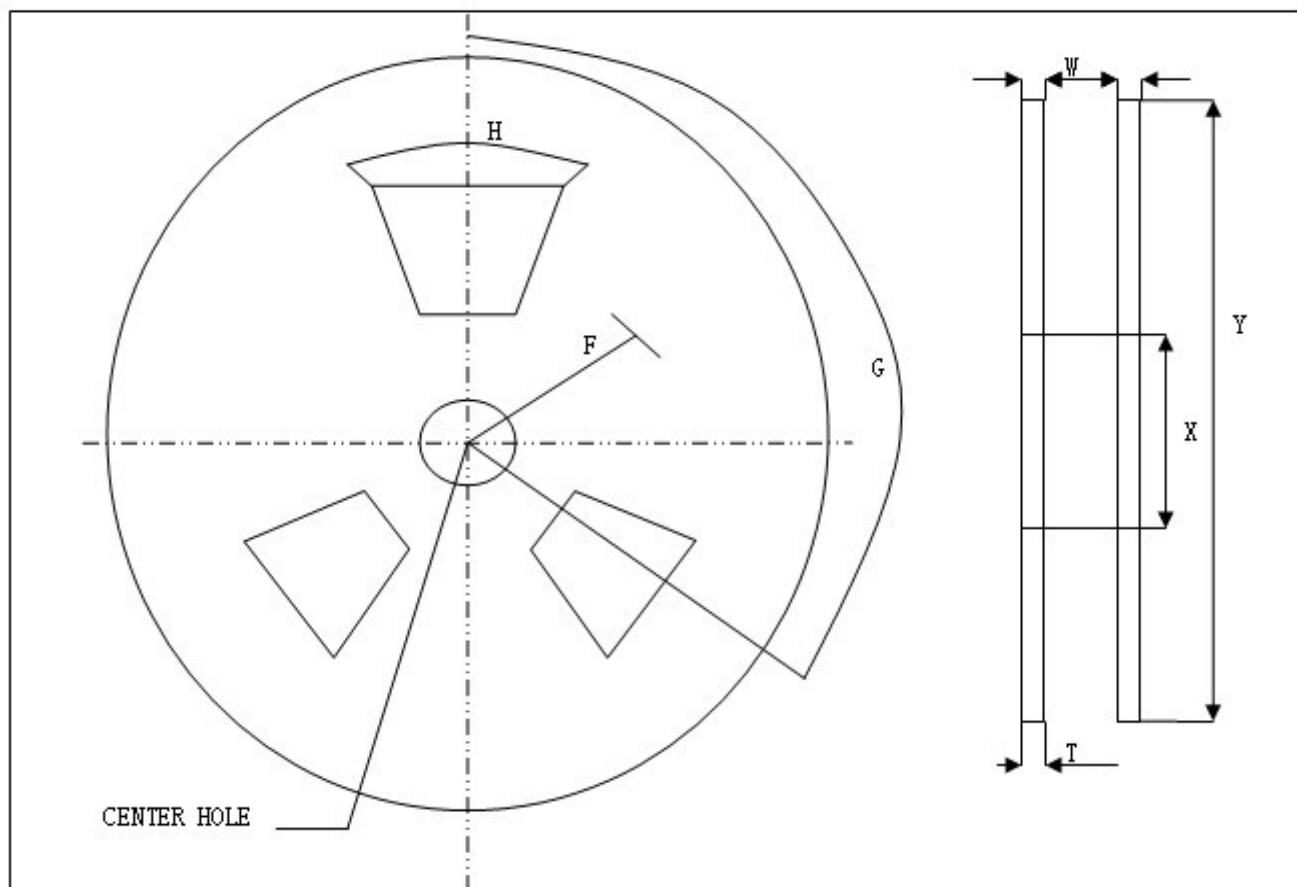


■ Taping Specification



Symbol	A	B	Do	D1	E	F
DIMENSION 8*4.5/4P	5.4	8.5	1.5	1	1.75	7.5
Symbol	K	Po	P1	P2	T	W
DIMENSION 8*4.5/4p	1.7	4	8	2	0.3	16

Unit:mm



Symbol	H	F	G	W	T	X	Y
Dimension 8*4.5/4P	40°	21±0.8	120	17.5	2	50	250