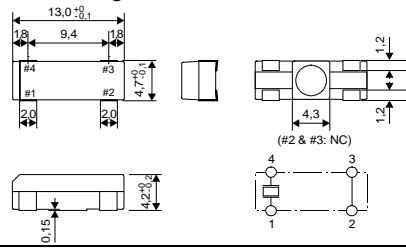
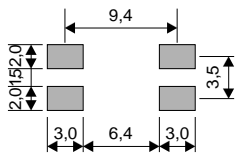
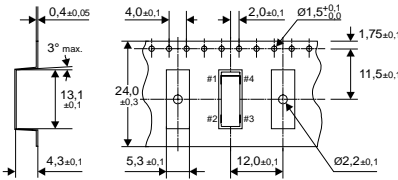
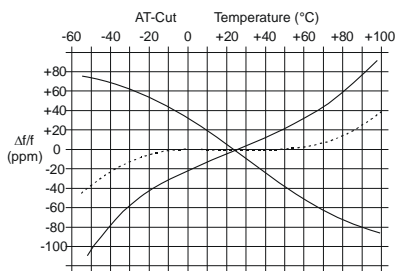


SMI 86SMX(MC) SM-Quartz / SM-crystal



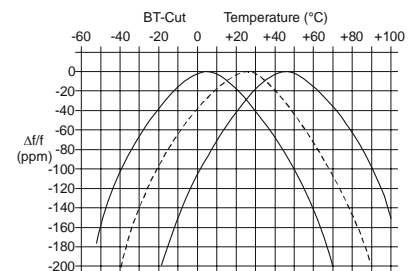
- die Quartztype 86SMX(MC) hat ein Plastikge-häuse niedriger Bauhöhe von nur 4,2 mm
- geringer Platzbedarf: 13 x 4,7 mm
- Frequenzbereich von 3,5 bis 60 MHz
- die Schwingungsart Grundwelle und der niedrige ESR erleichtert das Oszillatordesign
- die Standardlastkapazität beträgt 20 pF
- the crystal type 86SMX(MC) features a low profile plastic holder with a height of only 4,2 mm
- low space consumption: 13 x 4,7 mm
- frequency range from 3,5 to 60 MHz
- easy oscillator design due to the fundamental oscillator mode and the low ESR
- the standard load capacitance is 20 pF

Abmessungen in mm dimensions in mm 	holder type	86SMX(MC)				
	frequency range	F	3,579 - 40 MHz	32,0 - 60 MHz	32,0 - 50 MHz	
	oscillation mode		AT fund.	AT 3 rd	BT fund.	
	frequ. tolerance at +25°C	$\Delta f/F$	±50 ppm			
	temperature stability	$\Delta f/F$	±50 ppm		±100 ppm	
	operating temperature range	T _O	-20/+70°C		-10/+60°C	
	storage temperature range	T _S	-40°C to +90°C			
	load capacitance	C _L	20 pF typ.			
soldering patterns 	equivalent series resistance	R _S max.	200 Ω	3,57 - 3,99 MHz	100 Ω	40 Ω
			150 Ω	4,00 - 4,99 MHz		
tape specification 86SMX(MC) (1000 pcs per reel Ø330 mm) 	shunt capacitance	C ₀	7,0 pF max.			
	drive level	P	0,1 mW max.			
	aging	$\Delta f/F$	±5ppm per year max. at +25°C			
	insulation resistance		500 MΩ min. at 100V DC			
	reflow soldering condition	T _R	10 seconds max. at +255°C ±5°C			
	moisture sensitivity level		MSL1			



typischer Temperaturverlauf der Frequenzabweichung

typical temperature characteristics of the frequency tolerance



Bestellbezeichnung / order code

86 M 147 - 16 (MC)

holder type
circuit calibration

package type
load capacitance (C_L)
frequency designator

Beispiele / examples

Oszillatorschaltung circuit cal. cond.	Frequenz frequency	Gehäuse holder type	SMI-Bestellnr. SMI part no.
parallel res. 16pF	14,7456 MHz	86SMX(MC)	86M147-16(MC)
series res.	20,0000 MHz	86SMX(MC)	86S200(MC)

Standardfrequenzen - frequency designators

f (MHz)	designator	f (MHz)	designator	f (MHz)	designator
3,579545	035	8,192000	081	19,660800	196
3,686400	0368	9,216000	092	20,000000	200
4,000000	040	9,830400	098	20,480000	204
4,096000	0409	10,000000	100	22,118400	221
4,194304	041	10,240000	1024	24,000000	240
4,433619	044	11,059200	1105	24,576000	245
4,608000	046	12,000000	120	25,000000	250
4,915200	049	12,288000	122	27,000000	270
5,000000	050	13,560000	1356	29,491200	294
5,068800	0506	14,318180	143	30,000000	300
5,120000	0512	14,745600	147	32,000000	320
6,000000	060	15,000000	150	33,868800	338
6,144000	061	15,360000	1536	36,000000	360 3 rd
6,400000	064	16,000000	160	39,321600	393 BT
7,372800	073	16,384000	163	40,000000	400 BT
7,680000	0762	18,432000	184	40,320000	403 3 rd
8,000000	080	19,200000	192	50,000000	500 3 rd