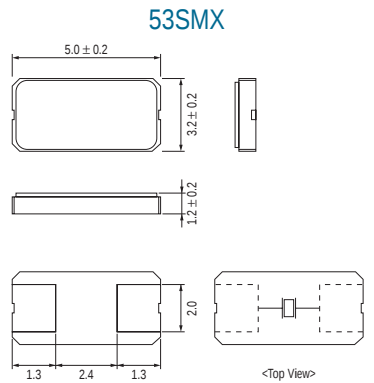
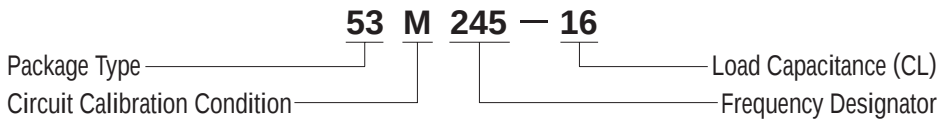


STANDARD SPECIFICATIONS

1. Package type 53SMX
2. Frequency range 14.300 MHz to 40.000 MHz
3. Calibration tolerance ± 50 ppm at $+25^{\circ}\text{C} \pm 3^{\circ}\text{C}$
4. Temperature stability (referred to $+25^{\circ}\text{C}$) ± 50 ppm over -10°C to $+60^{\circ}\text{C}$
5. Load capacitance 16 pF
6. Shunt capacitance (C_0) 5 pF max.
7. Drive level (P) 100 μW max.
8. Aging ± 5 ppm max. at $+25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ per year
9. Cut AT-Cut
10. Reflow soldering condition 10 seconds max. at $+235^{\circ}\text{C} \pm 5^{\circ}\text{C}$

PART NUMBERING GUIDE



EXAMPLE

CIRCUIT CALIBRATION CONDITION	FREQUENCY	SMI PART NO.
Parallel Resonance = M CL = 16 pF	245 = 24.576 MHz	53M245-16
Series Resonance = S (Optional)	245 = 24.576 MHz	53S245

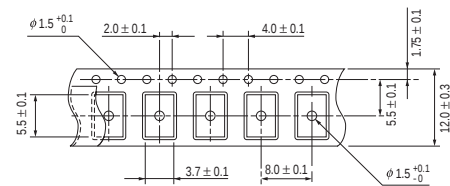
HOW TO ORDER STANDARD SMI CRYSTALS

Order by SMI Part No.

PACKAGE DATA

Item	Package	53SMX
LID		Ceramic
BASE		Ceramic
SEALING		Glass-frit / Resin
TERMINAL PLATING		Gold

TAPE SPECIFICATIONS



1000pcs. per reel (178mm dia.)

53SMX STANDARD FREQUENCIES

FREQUENCY MHz	FREQUENCY DESIGNATOR	MAXIMUM EQUIVALENT SERIES RESISTANCE OHMS	FREQUENCY MHz	FREQUENCY DESIGNATOR	MAXIMUM EQUIVALENT SERIES RESISTANCE OHMS
14.318180	143	100	19.200000	192	80
14.400000	144	100	19.660800	196	80
14.484000	1448	100	20.000000	200	80
14.644000	146	100	20.480000	204	80
14.745600	147	100	20.736000	207	80
15.000000	150	100	22.118400	221	80
15.360000	153	100	24.000000	240	80
15.500000	155	100	24.000140	240001	80
15.728640	157	100	24.576000	245	80
16.000000	160	100	25.000000	250	60
16.000312	160003	100	25.175000	251	60
16.044000	1604	100	25.312000	253	60
16.128000	1612	100	27.000000	270	60
16.147200	1614	100	28.000000	280	60
16.257000	162	100	28.224000	282	60
16.384000	163	100	28.636363	286	60
16.667000	166	100	28.800000	288	60
16.934400	169	100	29.491200	294	60
17.000000	170	100	30.000000	300	60
17.100000	171	100	32.000000	320	60
17.700000	177	100	32.215909	322	60
17.734475	1773	100	33.333000	333	60
18.000000	180	80	33.868800	338	60
18.432000	184	80	35.251200	352	60
18.867000	188	80	35.468950	354	60
18.869000	1886	80	36.000000	360	60
18.870000	1887	80	40.000000	400	60