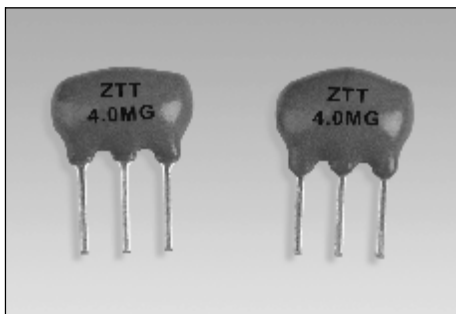


• ZTT Series



The ZTT series ceramic resonator is the miniature low profile frequency control products with built-in capacitor. It is of very competitive price than quartz crystal parts and of high stability that make it substitute the quartz crystal when need lower price.

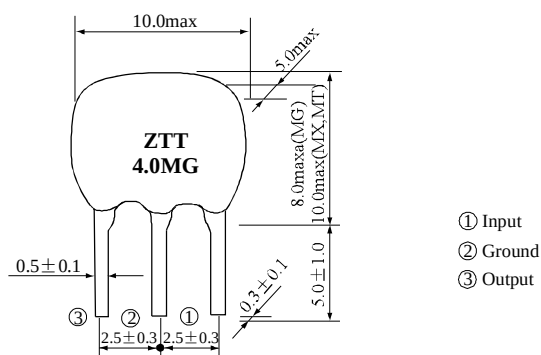
FEATURES

- Low Cost
- Built-in capacitor
- High Stability
- Wide Frequency Range
- Small Compact Size

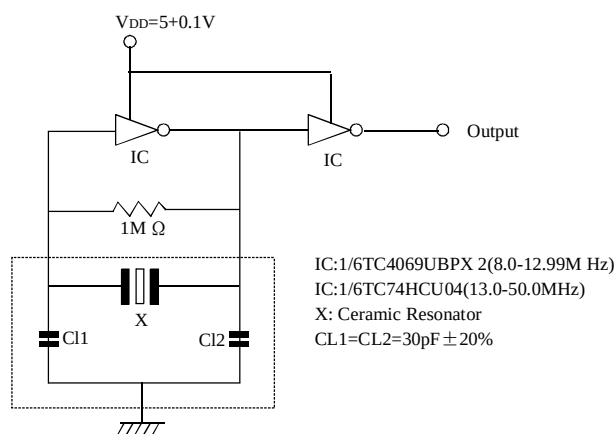
Electrical Specifications

Part Number	ZTT□.□□MG	ZTT□.□□MG	ZTT□.□□MG	ZTT□□.□□MT	ZTT□□.□□MX
Frequency Range (MHz)	1.80 to 2.99	3.00 to 3.49	3.50 to 5.99	6.00 to 12.99	13.00 to 50.00
Frequency Accuracy(at 25℃) (%)	±0.5	±0.5	±0.5	±0.5	±0.5
Stability in Temperature -20℃ to +80℃ (%)	±0.3	±0.3	±0.3	±0.3	±0.3
Aging For Ten Years(%)	±0.3	±0.3	±0.3	±0.3	±0.3
Resonator Resistance(Ω) Max	80	50	30	25	35
Withstanding Voltage (5 seconds Max.)	100V _{DC}	100V _{DC}	100V _{DC}	100V _{DC}	100V _{DC}
Insulation Resistance Minimum(at 10V _{DC})	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$	$5 \times 10^8 \Omega$

Mechanical Dimensions(mm)



Test Circuit For MOS IC



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Ceramic Resonator Part Numbering System

<u>EZ</u> ↓ Internal Code	<u>TA</u> ↓ Package	<u>03580</u> ↓ Nominal Frequency	<u>D</u> ↓ Tolerance	<u>B</u> ↓ Option
	TA=High frequency 2 pin ZTA series TB=Low frequency 2 pin ZTB series TT=High frequency 3 pin ZTT series TY=SMD of ZTB ZTBY series TD=SMD of ZTA with CC ZTACC series TF=SMD of ZTA with CS ZTACS series TG=SMD of ZTA with CV ZTACV series TJ=SMD of ZTA with CW ZTACW series TE=SMD of ZTT with CC ZTTCC series TH=SMD of ZTT with CS ZTTCS series TI=SMD of ZTT with CV ZTTCV series TK=SMD of ZTT with CW ZTTCCW series	03580=3.58MHz 50000=50.000MHz 00455=455KHz 01250=1250KHz	A=0.1% B=0.2% C=0.3% D=0.5% E=± 1KHz f= ± 2KHz	L=Cut lead R=Tape and Reel G=Gull Wing B=Tape and Box X=Special

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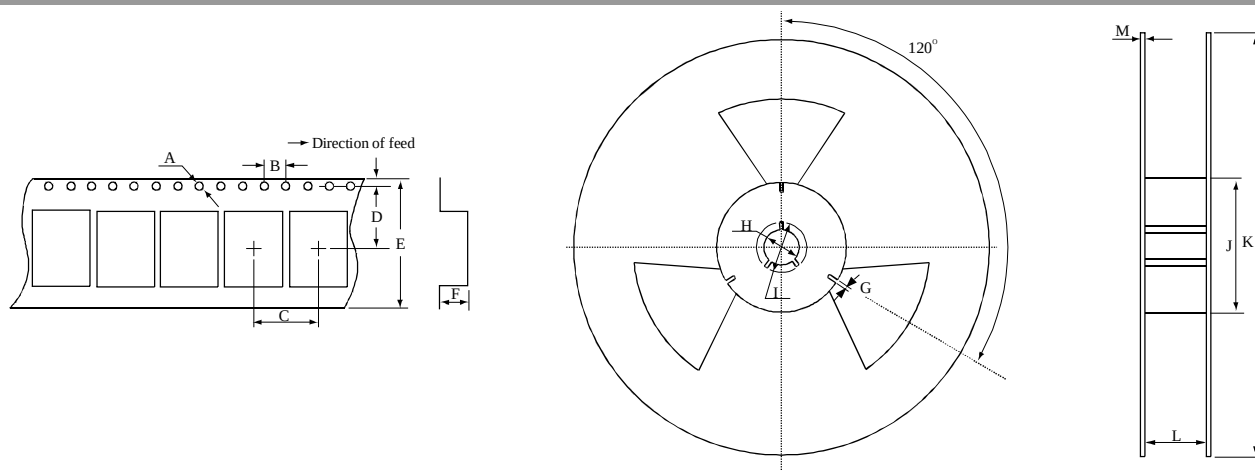
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TAPE AND REEL SPECIFICATION FOR SMD PRODUCTS



TAPE SPECIFICATION

Unit:mm

Model	A	B	C	D	E	F	QTY/REEL
HC-49SMA	φ 1.50	4.0	12.0	11.5	24.0	4.35	1000
HC-49SMB	φ 1.50	4.0	12.0	11.5	24.0	3.5	1000
TAB	φ 1.50	4.0	4.0	3.5	8.0	0.60	3000
1AB	φ 1.50	4.0	4.0	3.5	8.0	0.65	3000
2SB,3SB,3FB	φ 1.50	4.0	4.0	3.5	8.0	1.0	3000
4SB	φ 1.50	4.0	4.0	3.5	12.0	1.0	3000
5FA,5FB,5SB	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
6SB	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
7SB	φ 1.50	4.0	8.0	7.5	16.0	1.6	1000
8FA	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
HXO-N,HXO-QN	φ 1.50	4.0	4.0	3.5	8.0	0.9	3000
HXO-S,HXO-QS	φ 1.50	4.0	4.0	3.5	8.0	1.3	3000
HXO-5,HXO-Q5,VC-T	φ 1.50	4.0	8.0	5.5	12.0	1.5	1000
HXO-3,HXO-Q3, HXO-P3,HXO-T3	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
VC-S,VC7CC	φ 1.50	4.0	8.0	7.5	16.0	2.0	1000
ZTACC,ZTTCC	φ 1.50	4.0	8.0	7.5	16.0	2.1	4000
ZTACS,ZTTCS	φ 1.50	4.0	8.0	5.5	12.0	1.8	1000
ZTACV,ZTTCV	φ 1.50	4.0	8.0	5.5	12.0	1.3	1000
ZTACW,ZTTCW	φ 1.50	4.0	4.0	3.5	8.0	1.3	3000

REEL SPECIFICATION

Model	G	H	I	J	K	L	M
HC-49SMA	2.5	φ 13.5	21.6	99.5	330	25.5	2.3
HC-49SMB	2.5	φ 13.5	21.6	99.5	330	25.5	2.3
TAB,1AB	2.5	φ 13.5	21.6	60.0	180	9.5	1.6
2SB,3SB,3FB	2.5	φ 13.5	21.6	60.0	180	9.5	1.6
4SB	2.5	φ 13.5	21.6	60.0	178	9.5	1.6
5FA,5FB,5SB	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
6SB	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
7SB	2.5	φ 13.5	21.6	60.0	178	17.5	1.6
8FA	2.5	φ 13.5	21.6	60.0	178	17.5	1.6
HXO-N,HXO-QN	2.5	φ 13.5	21.6	60.0	178	9.5	1.6
HXO-S,HXO-QS	2.5	φ 13.5	21.6	60.0	178	13.5	1.6
HXO-5,HXO-Q5,VC-T	2.5	φ 13.5	21.6	80.0	178	13.5	1.6
HXO-3,HXO-Q3, HXO-P3,HXO-T3	2.5	φ 13.5	21.6	80.0	178	17.5	1.6
VC-S, VC7CC	2.5	φ 13.5	21.6	80.0	178	17.5	1.6
ZTACC,ZTTCC	2.0	φ 13.5	21.6	80.0	330	16.4	3.0
ZTACS,ZTTCS,ZTACV,ZTTCV	2.0	φ 13.5	21.6	60.0	180	12.4	3.0
ZTACW,ZTTCW	2.0	φ 13.5	21.6	60.0	180	8.4	3.0

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