			REV.	ECO					REVISIONS					
					DESCRIPTION							DATE	APPROVED	
			-		Initial Release							10/9/2003	RW	
SPECIFICATIONS														
											OUTLINE DRAWING			
Port Number	Frequency	Frogu	0001	Aging	Operating	Pee					0.8±0.2			
(XX X denotes freq in MHz)	Tolerance	Stability		in 10	temperature	Imp								
	at 25°C	at - 20°C t	to +80°C	vears	temperature	(Ω) max.								
AWSZT-XX.XMWS	± 0.5%	± 0.3%		± 0.3%	-20° to +80°C	25			MARKING					
8.00 MHz - 13.0 MHz						-				-	4.1±0	2		
AWSZT-XX_XMWD		+ 0.3	3%			25			X.XX7Y	,				
8 00 MHz - 13 0 MHz	+ 0.5%	+ 0 5% (- 40	C to 85C)	$+ 0.3\% -40^{\circ}$ to +85°		20				•				
	10.070	+ 0 1	3%	- 0.070	40 10 100 0	25								
8 00 MHz - 13 0 MHz	+ 0.5%	+ 0.7% (- 400	C to 125C)	+ 0 3%	-40° to +125°C	23			7 month code					
8.00 MHZ - 13.0 MHZ	± 0.3 /6	± 0.7% (- 400	C 10 125C)	1 ± 0.3 /0	-40 10 +125 C				Z monun code					
Storage temperature:- 40°C to + 125°C														
Insulation resistance: 500Mohms min. at 10Vdc														
OPTIONS AND PART IDENTIFICATION(Left blank if standard) Recommended Land Pattern AWSZT - XX.XXMWY - Packaging 39402														
XX.XX: Frequency in MHz														
Y: S , D , or A														
Backaging option:														
Packaging option:														
ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS											-+ 1.2±0.2 +-	Dimension	s: mm	
Temperature Cycling: Subject the resonator to -40°C±2°C for 30 min. followed by +85°C±2°C.Cycling for 5 times. TEST CIRCUIT											TEST CIRCUIT			
1 hour stabilization at room temp prior to measurement.											Vdd			
High Temperature: Subject the resonator at 85°C ± 2 °C for 100 hours, release to room temp. 1 hour prior to measurment. 1/6 U1 1/6 U1														
Low remperature. Subject the resonator to $60 \pm 2^{\circ}$ at 0.95° RH for 100 hours, release the resonator into the room condition for 1 hour prior to measurement.														
Drop test: Drop onto concrete floor from the height of 1 meter 3 times No visible damage														
Solder Heat Resistance: Reflow:Preheat 140°C ~160°C for 1 min.max.temp. 230°C \pm 5°C and C ₁ \downarrow Y ₁ \downarrow C ₂														
above 200°C for 20s max. then in natural condition for 1 hour before measurement.														
Washability: Ultrasonic wash 1 minute at 60°C in TCE, IPA and DI water (Frequency 28kHz, Output 20W/L) U1: 74HCU04														
Vibration: Apply the resonator to vibration	on for 2 hours in)	K,Y, Z axes wit	h 1.5 mm a	mplitude.Vit	oration should						Y1: RESONATOR C C : 15pE + 20% (20M ~ 25 99M)			
be varied uniformly between the limits, re	eturned to 10Hz ir	n 1 min.									$10 \text{pF} \pm 20\% (26 \text{M} \sim 50 \text{M})$			
I erminal strength:1kg pulling force along	g direction of lead	ls for 10±1s, sr s No visible de	nall be subje	ected to			E0.							
Solderability: Dip the leads into the solution of 25% rosin and etchl alcohol then into solder bath						UNLESS OTHERWISE SPECIFIED:					29 JOURNEY, ALISO VIEJO			
(60/40 Sn/Pb) for 2 ± 0.5 s at 235°C. Then release the resonator into the room condition for 1 hour						.XXX: ±0.005					CA. 92656 (949) 448-707	0		
prior to measurement. 95% min. lead terminals shall be wet with solder.							1	ANGLE:			FAX: (949) 448-8484			
PCB bend strength: After soldered on the PCB, press it by up to 1mm for 5s, 5times repeatedly							0	± 1°		P/N	AWSZTI 1MW SER	IES		
Table 1							S		DATE	4				
ITEM Specification								LD	10/9/2003	TITLE	HIGH FREQUENCY MHz SMD			
Oscillation Frequency Change	± 0.3 % max.	-				PROD. MGR	λ.	RD	10/9/2003		WASHABLE, CERAMIC RESONATORS	0175	OUEET	
Capacitance Change	± 20% max.	J				ENGR. MGR	ί.	RD P\M	10/9/2003	DVVG. NO.	151616	SIZE A	SHEEI	
All specifications subject to change	e without notic	e.						rtw CR	10/9/2003	-		A	1011	
, an opcomoutions subject to thany						i onon.		00	10/3/2003	1				