SIEMENS-ALLIS

FREQUENCY DISTRIBUTION ANALYSIS SHEET

SUPPLIER	CHARACTERISTIC	PART NAME	REPORT NO.
P.O. NO.	SPEC. LIMIT	PART NO.	LOT, HEAT, SERIAL NO.

1 CELL BOUNDARIES HIGH TO LOW	2 CELL MIDPOINTS HIGH TO LOW	3 TALLY	4 f	7 ACCUM. 4	8 7/6 x 100 % OVER
1 CELL = 0.2"		+3 +2 +1 0			
		-3 -2 -1 0			

CELL INTERVAL m = 1" = 5m =

5 TOTAL

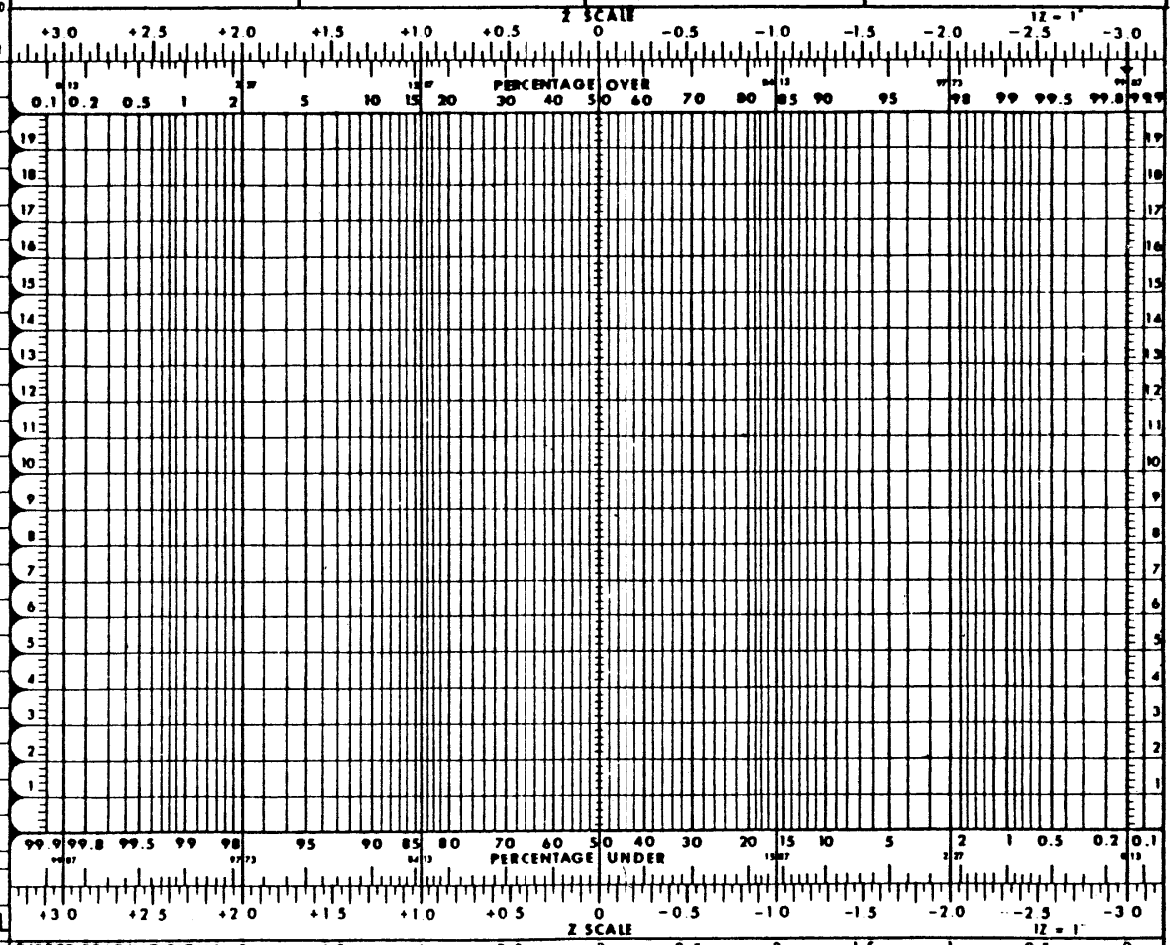
6 2 X TOTAL

FDAS ESTIMATE	CONFIDENCE LIMITS UPPER	CONFIDENCE LIMITS LOWER	CONF LEVEL		
$\bar{X}$			%	$UCL_{\bar{X}}$	$LCL_{\bar{X}}$
σ			%	$UCL_{\bar{\sigma}}$	$LCL_{\bar{\sigma}}$
$\bar{P}_{USL}$			%	UCL_{σ}	LCL_{σ}
$\bar{P}_{LSL}$			%	$\bar{X}$	$\bar{\sigma}$
				n	

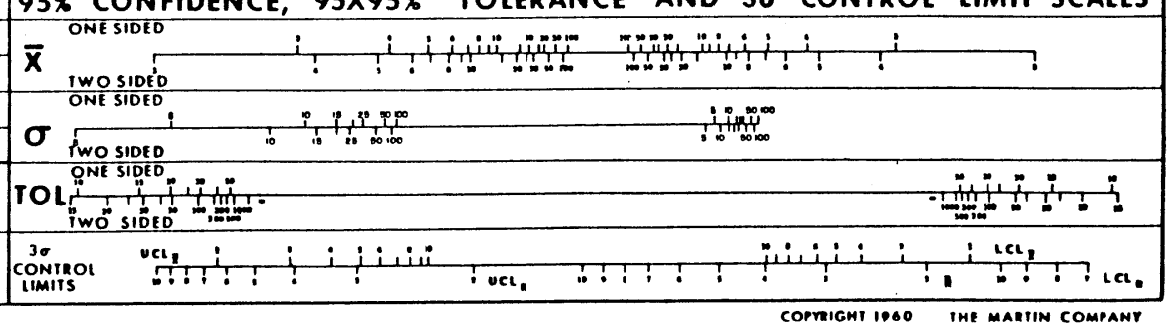
PERCENTAGE	TOLERANCE LIMITS UPPER	TOLERANCE LIMITS LOWER	CONF LEVEL
BETWEEN LTL & UTL			%
< UTL		X	%
> LTL	X		%

ANALYST

DATE



95% CONFIDENCE, 95X95% TOLERANCE AND 3σ CONTROL LIMIT SCALES



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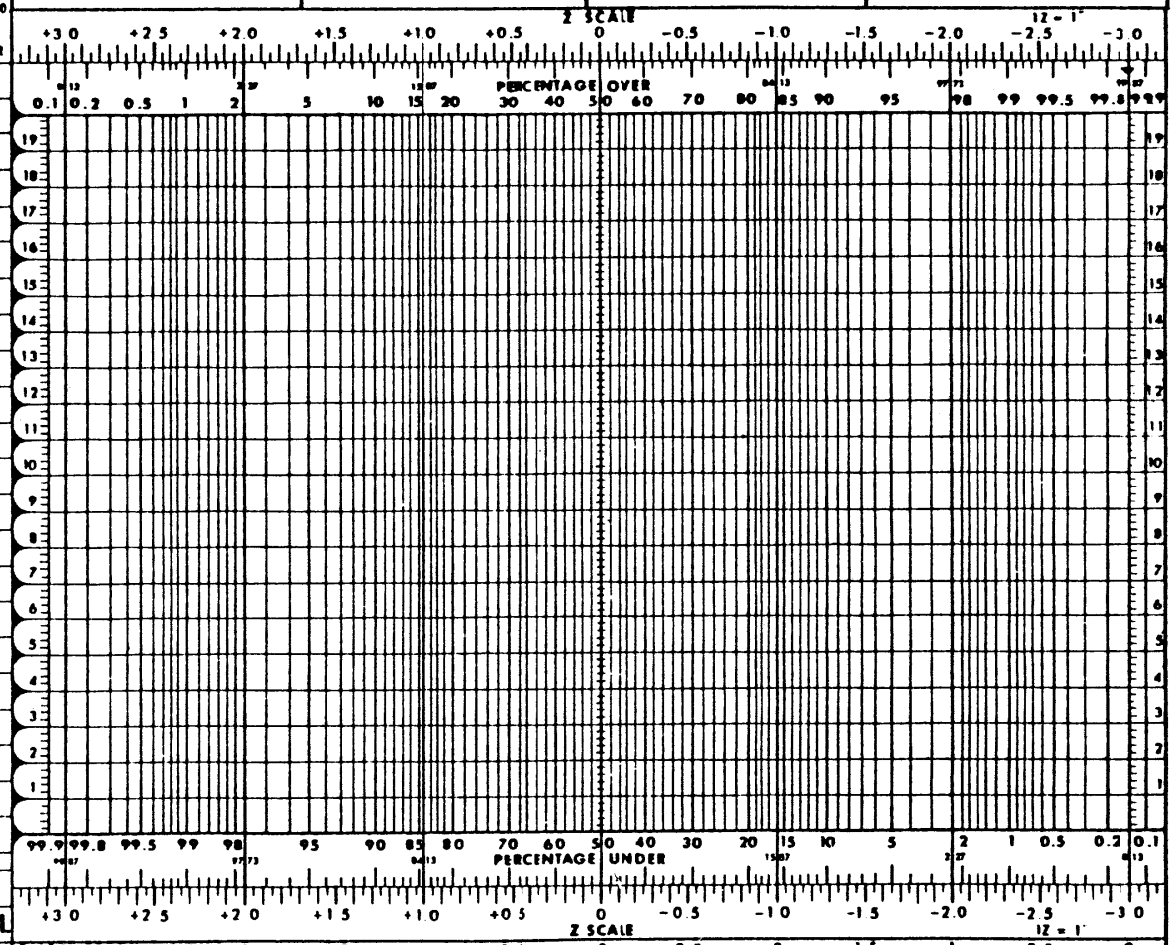
σ			%	$UCL_{\bar{\sigma}}$	$LCL_{\bar{\sigma}}$
$\bar{p}_{USL}$			%	UCL_{σ}	LCL_{σ}
$\bar{p}_{LSL}$			%	$\bar{x}$	$\bar{\sigma}$
				n	

PERCENTAGE	TOLERANCE LIMITS UPPER	TOLERANCE LIMITS LOWER	CONF LEVEL
BETWEEN LTL & UTL			%
<UTL			%
> LTL			%

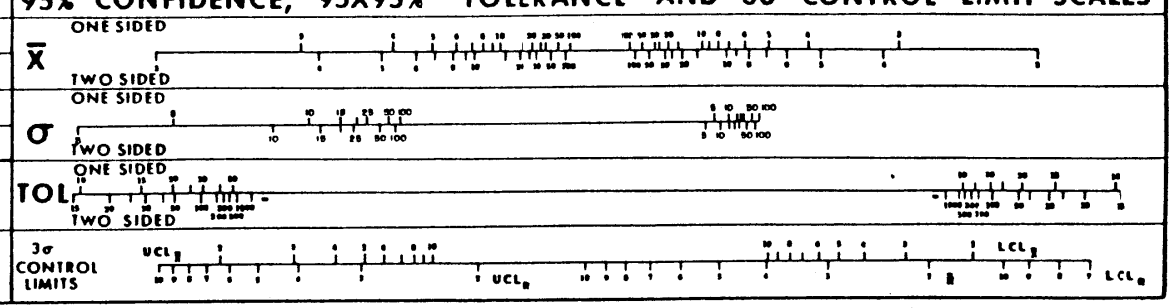
ANALYST

DATE



DIRECT READING SIGMA SCALE (IN CELLS) 5 4.5 4 3.5 3 2.5 2 1.5 1 0.5 0

95% CONFIDENCE, 95X95% TOLERANCE AND 3σ CONTROL LIMIT SCALES



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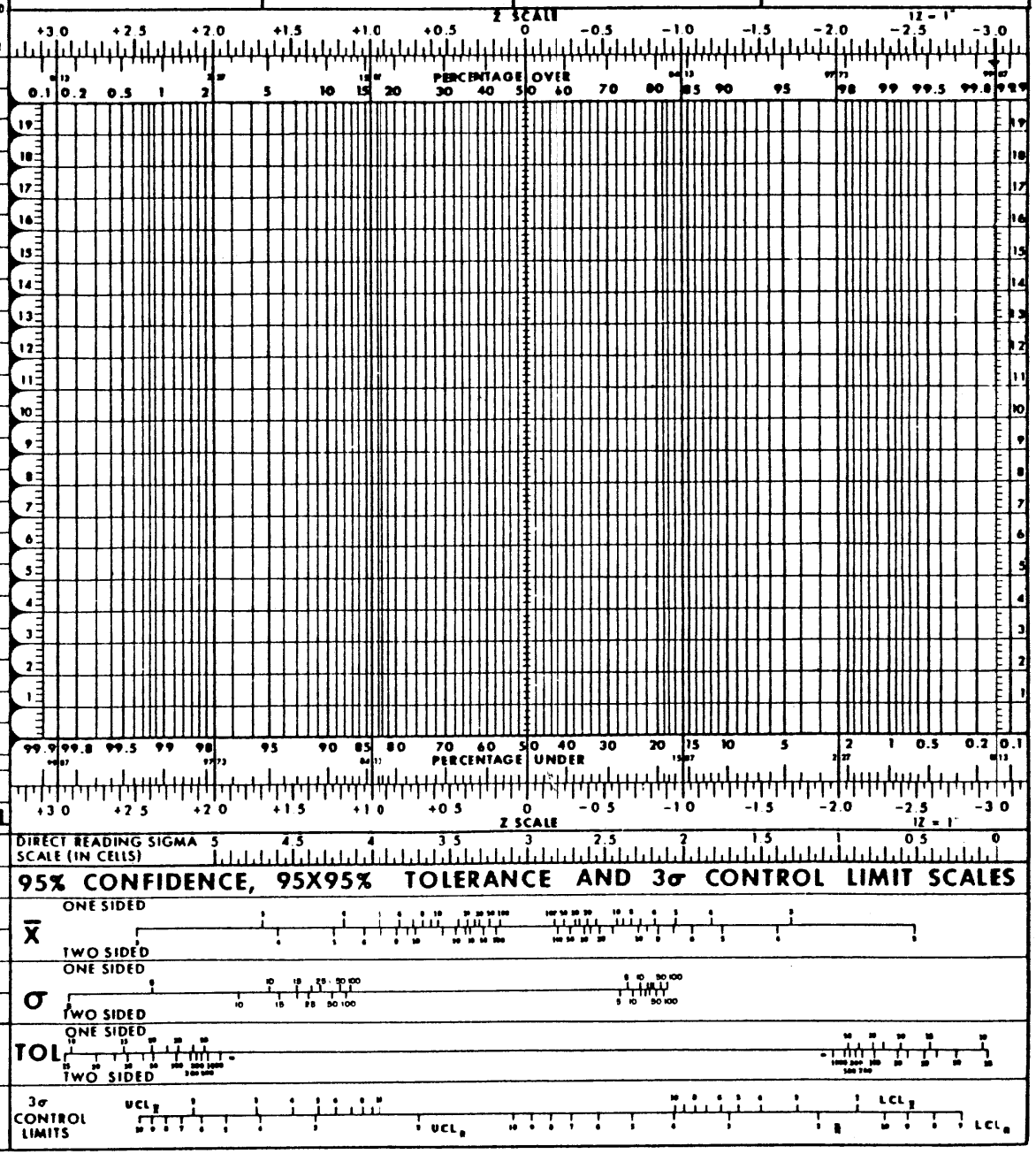
σ			%	$UCL_{\bar{\sigma}}$	$LCL_{\bar{\sigma}}$
$\bar{P}_{USL}$			%	$UCL_{\bar{R}}$	$LCL_{\bar{R}}$
$\bar{P}_{LSL}$			%	UCL_{σ}	LCL_{σ}
				$\bar{R}$	$\bar{\sigma}$
				n	

PERCENTAGE	TOLERANCE LIMITS UPPER	TOLERANCE LIMITS LOWER	CONF LEVEL
BETWEEN LTL & UTL			%
<UTL			%
> LTL			%

ANALYST

DATE



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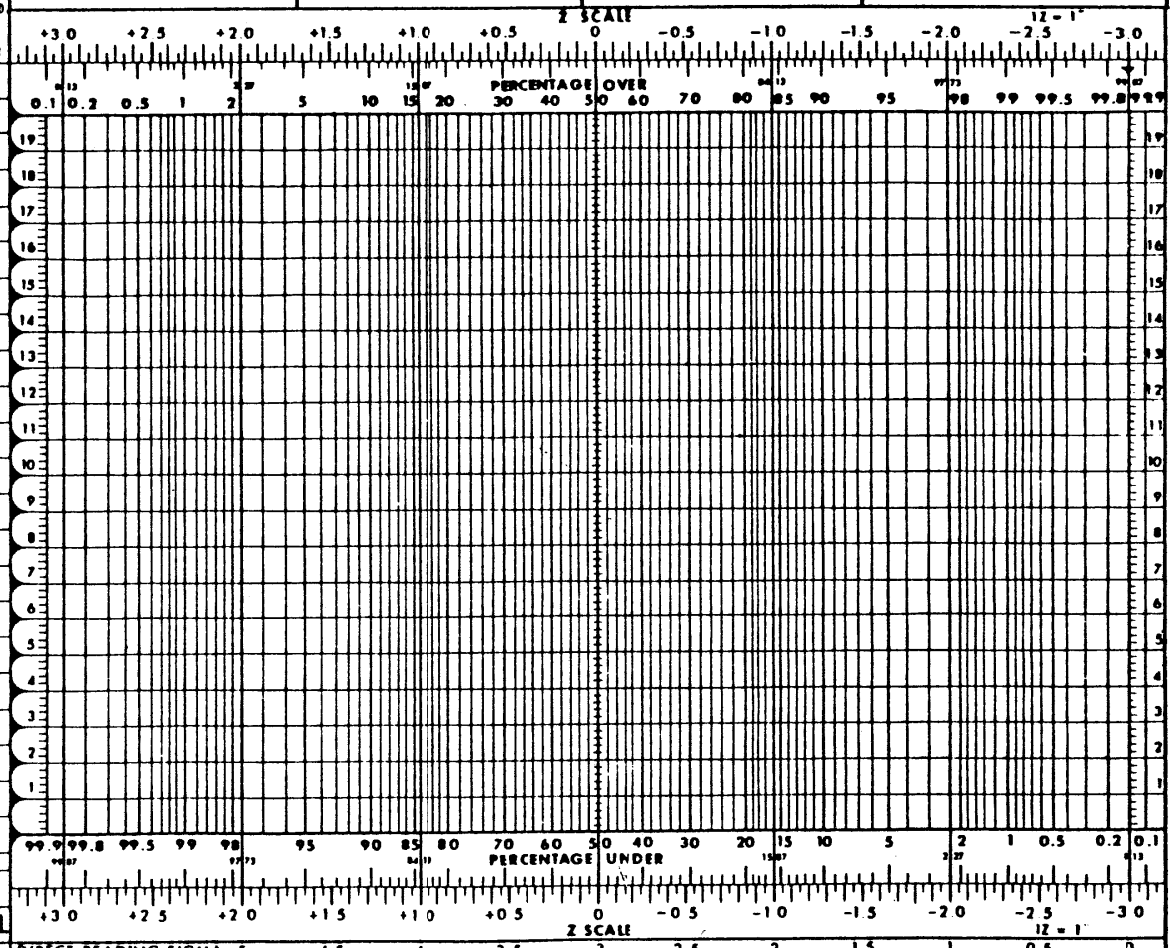
$\bar{P}_{USL}$			%	UCL_{σ}	LCL_{σ}
$\bar{P}_{LSL}$			%	$\bar{X}$	$\bar{\sigma}$
				n	

PERCENTAGE	TOLERANCE LIMITS UPPER	TOLERANCE LIMITS LOWER	CONF LEVEL	ANALYST
BETWEEN LTL & UTL			%	
<UTL		X	%	DATE
> LTL	X		%	



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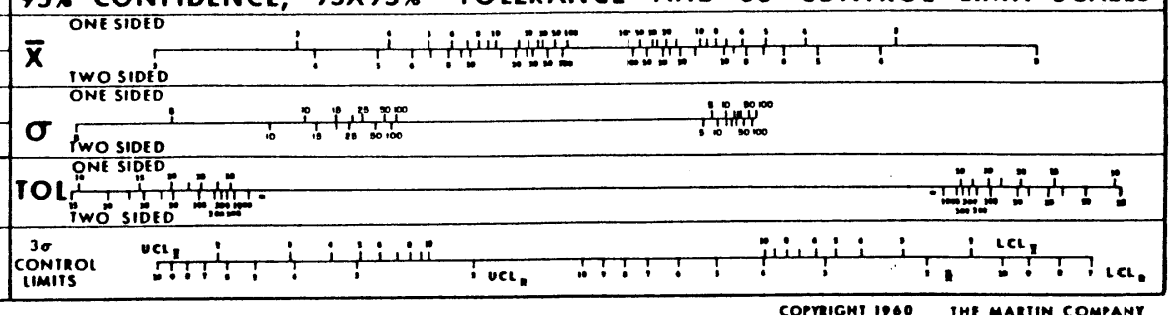

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