



**Products for Parts Per Million (PPM)
& Statistical Process Control (SPC)**

General :

Unless otherwise specified, it should be performed per MIL-STD-105E level II, normal inspection.
(AQL-Acceptable Quality Level B) Mechanical and marking inspection should be performed with unaided eyes.

Targets and Schedule :

TYPE \ PACKING			DEMERITS	PPM LEVEL						
				TARGET						
				2000	2001	2002	2003	2004	2005	2006
RECTIFIERS	DIODES	TAPE-REEL	CRITICAL	20	15	10	10	10	10	10
			MAJOR	60	50	30	25	25	25	25
		BULK	CRITICAL	20	15	10	10	10	10	10
			MAJOR	50	50	30	25	25	25	25
	BRIDGES	BOX AND TUBE	CRITICAL	40	30	20	20	20	20	20
			MAJOR	60	50	30	25	25	25	25
	SURFACE MOUNT	TAPE-REEL	CRITICAL	40	30	10	10	10	10	10
			MAJOR	60	50	30	25	25	25	25

The Program of Statistical Process Control (SPC), as part of TQC (Total Quality Control,) aims at improving the workmanship and enhancing the reliability and quality of products through personal involvement and participation of all employees. The SPC targets are listed below:

	2000	2001	2002	2003	2004	2005	2006	Process
Cpk Value	1.4	1.5	1.67	1.7	1.7	1.7	1.7	Diffusion and etching

Definition of Demerits :

CRITICAL : Open and Short (O/S), Reverse Polarity (R/P)

MAJOR : I_R out of spec. reading @ rated V_R .

V_F out of spec. reading @ rated I_F .

T_{RR} out of spec. reading.

Poor solderability.

Mixed / Wrong type of products.

Marking missing over 50% area or illegible.