

## RELIABILITY REPORT

DATE: 06/24/2004

QUALITY ENG :	PURPOSE:						
Micrel (408)435-3476	MIC29502 High-Current Low-Dropout Regulator						
QUAL VEHICLES :	PACKAGE TYPE :	ASSEMBLY LOC	M/C	LOT #	FAB LOC	D/C #	PROCESS
MIC29502BU	TO-263 5L	UNISEM	MP180S	66211643	FORTUNE	0024	BCDM

### QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	PART NO.	LOT ID.	168H	500H	1000H	COMMENTS
HTOL  High Temperature Operating Life Test	TA= + 125°C	MIC29502BU	66211643	0/100	0/100	0/100	
TEST DESCRIPTION	METHOD/CONDITIONS	PART NO.	LOT ID.	168H	COMMENTS		
PRESSURE POT  With Level 3 Pre-conditioning	Ta = +121°C/100%RH  15 PSIG	MIC29502BU	66211643	0/45			
TEST DESCRIPTION	METHOD/CONDITIONS	PART NO.	LOT ID.	500 cyc	1000 cyc	COMMENTS	
TEMP CYCLE  With Level 3 Pre-conditioning	MIL-STD 1010  -65°C/+150°C	MIC29502BU	66211643	0/45	0/45		
TEST DESCRIPTION	METHOD/CONDITIONS	PART NO.	LOT ID.	STRESS LEVEL	RESULT	COMMENTS	
ESD-HBM	MIL-STD 883  Method 3015	MIC29502BU	66211643	+/- 500V +/-1000V +/-1500V +/-2000V	0/3 1/3 3/3 3/3		
ESD-MM	JESD-22  Method A115	MIC29502BU	66211643	+/-100V +/-200V	0/3 0/3		
LATCH-UP	JESD-78  TA = +25°C	MIC29502BU	66211643	I/O LU  O/V LU	0/3  0/3	I/O TRIGGER @ +/- 200mA O/V TEST @ ABS MAX VCC OR 1.5X VCC	
FLAMMABILITY	UL-94V-0  Certified	All mold compounds used by Micrel meet this standard. See the UL website on-line list of material flammability certifications. Micrel requires a Certificate of Compliance from the assembly house and we verify the certifications on the web.					