



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
-	RELEASED	2/20/01	RR
A	REVISED PER ECN 04-006 (NOTE 6)	4/19/04	RK
B	CHANGED OP. AMPERE-TURNS FROM 13-21 TO 11-21 DUE TO PART AVAILABILITY	6/25/04	RR
C	REMOVED HAMLIN, ADDED NEW VENDOR INFO.	7/16/2015	RR

1. CONSTRUCTION:

- A. LEAD MATERIAL IS APPROX 50% NICKEL & 50% IRON WITH TIN PLATE.
- B. CONTACT ARRANGEMENT; SINGLE POLE, SINGLE THROW, NORMALLY OPEN, FORM A.
- C. THERE SHALL BE NO CADMIUM OR ZINC MATERIAL ON ANY EXPOSED PORTION OF THE SWITCH.
- D. CONTACTS SHALL BE RHODIUM.
- E. LEADS SHALL BE FREE OF CONTAMINANTS SUCH AS EPOXY, LACQUER, GREASE, OIL, ETC.

- 6. VIBRATION TEST AND CONTACT STICKING- (SINGLE SAMPLING, NORMAL INSPECTION, LEVEL II, 1.0 AQL PER MIL-STD-105D).
- A) 20 PIECES ARE TESTED TO THE REQUIREMENTS OF THE TABLE BELOW PER MIL-S-55433C, 1st ARTICLE INSPECTION CRITERIA.
- B) TESTED PARTS ARE TO BE BAGGED AND MARKED NON-USABLE AND DELIVERED WITH TEST DATA.(20 SWITCHES TOTAL).

2. OPERATING CHARACTERISTICS:

PARAMETER	RATING
	KSK-1A80-2030
OPERATE AMPERE-TURNS	20-30
RELEASE AMPERE-TURNS	10-15
OPERATE TIME	600 uSEC MAX
RELEASE TIME	100 uSEC MAX
TERMINAL STRENGTH	4.4 LBS APPLIED FORCE
OPERATING TEMP. RANGE	-20°C TO +130°C

TEST	MIL-S-5543 PARA.		DETAILS	
	REQT	METHODS		
VIBRATION, HIGH FREQ.	3.10	4.6.8	CONDITION A, METHOD 204 OF MIL-STD-202	
CONTACT STICKING	3.5.5	4.6.3.5.1 & 4.6.3.5.2	EXCEPT EXPOSURE TIME SHALL BE 3 HOURS	1.0 AT OR MORE DECREASE IN DROP-OUT SHALL BE CAUSE FOR REJECTION
* SOLDERABILITY	3.4	4.6.2		
* TERMINAL STRENGTH	3.9	4.6.7		
* THERMAL SHOCK	3.8	4.6.6		
* LIFE	3.12	4.6.10	1 MILLION CYCLES @ 10 ma, 10V.	MAY BE PERFORMED PRIOR TO CONTACT RESISTANCE, OPERATE AND RELEASE AMP TURNS.
* SHOCK	3.11	4.6.9	MIL-STD-202, METHOD 213 COND. J	
* HERMETICITY	3.13	4.6.11		

* TEST PERFORMED WHEN SPECIFIED ON PURCHASE ORDER

3. ENVIRONMENTAL CHARACTERISTICS:

MUST CONFORM TO ENVIRONMENTAL REQUIREMENTS TO MIL-S-55433.

4. ELECTRICAL CHARACTERISTICS

PARAMETER	RATING
CONTACT RATINGS	500 mAMPERES MAX. 170 VDC MAX. 10 WATTS MAX.
INITIAL CONTACT RESISTANCE	.200 OHMS
CAPACITANCE	.2 pf TYPICAL. (@10 kHz)
INSULATION RESISTANCE	1 GIGAOHM INTERNAL, 100V TEST VOLTAGE
DIELECTRIC WITHSTANDING VOLTAGE	210 VDC

7. TEST DATA INCLUDING LOT NUMBER, BATCH & TEST RESULTS TO BE INCLUDED WITH UNITS.

8. IDENTIFICATION OF THE SUGGESTED SOURCE(S) HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S).

SOURCE		
SMI PART No.	VENDOR PART No.	VENDOR
5B-3589-1	KSK-1A80-2030	MEDER ELECTRONICS GERMANY 1-508-539-0002 SALESUSA@MEDER.COM

5. INSPECTION- 100% REQUIRED ALL UNITS, EXCEPT AS NOTED.

EXAMINATION OR TEST	MIL-S-55433 PARA.		DETAILS
	REQT	METHODS	
VISUAL EXAMINATION	3.3	4.6.1	--
CONTACT RESISTANCE	3.5.1	4.6.3.1	SEE NOTE 4
OPERATE AMPERE-TURNS	3.5.2	4.6.3.2	SEE NOTE 2
RELEASE AMPERE-TURNS	3.5.2	4.6.3.2	SEE NOTE 2
OPERATE AND RELEASE TIME	3.5.6	4.6.3.6	SEE NOTE 2
INSULATION RESITANCE	3.7	4.6.5	POINTS OF MEASUREMENT ARE ACROSS N/O CONTACTS WITH SWITCH CAPSULE DE-ENERGIZED
DIELECT. WITHSTAND VOLTAGE	3.6	4.6.4	SEE NOTE 4

SPECIFICATION CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±1/32 ANGULAR: MACH ±1/2° TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005		NAME J TRACY	DATE 2/15/2001	SECTOR MICROWAVE IND, INC TITLE: REED SWITCH
DRAWN		RR	2/15/2001	
MATERIAL SEE NOTE 1		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SECTOR MICROWAVE IND, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SECTOR MICROWAVE IND, INC IS PROHIBITED.		SIZE B MFG CODE 53263 DWG. NO. 5L-3589-1 REV C
FINISH SEE NOTE 1		SCALE: 2:1 WEIGHT: 0.069 g SHEET 1 OF 1		
APPLICATION		DO NOT SCALE DRAWING		