

SERIES 70

SURFACE MOUNT

REED RELAYS SERIES 70

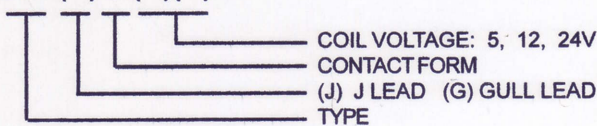
COIL RATINGS

PART NUMBER	NOMINAL VOLTAGE (VDC)	COIL RESISTANCE OHMS +/- 10%	OPERATE VOLTAGE (VDC) MAX.	RELEASE VOLTAGE (VDC) MIN.	SCHEMATICS
SMP()1A()()	5	500	3.8	0.5	
	12	1000	9.0	1.0	
	24	2000	18.0	2.0	
SMS()1A()()	5	500	3.8	0.5	
	12	1000	9.0	1.0	
SME()1A()()	5	150	3.8	0.5	
	12	600	9.0	1.0	
SMB()1B()()	5	500	3.8	0.5	
	12	500	9.0	1.0	
SMC()1C()()	5	200	3.8	0.5	
	12	500	9.0	1.0	

ORDERING INFORMATION

SCHEMATICS (TOP VIEWS)

SMP()1A()()



GLOSSARY :

COIL
 NORMALLY OPEN SWITCH
 NORMALLY CLOSED SWITCH
 ELECTROSTATIC SHIELDING E.S.

SPECIAL NOTES

SURFACE MOUNT REED RELAY SOLDERING:

SURFACE MOUNTABLE COMPONENTS ARE MANUFACTURED OUT OF HEAT SENSITIVE MATERIALS SUCH AS GLASS, COPPER AND/OR DUMET WIRE, SILICON, GERMANIUM AND A VARIETY OF PLASTICS, JUST TO NAME A FEW. EACH OF THESE MATERIALS ARE RELATIVELY STABLE IN THAT PHYSICAL DEFORMATION OVER TIME IS MINIMAL. HOWEVER, THESE PHYSICAL AND MANY ELECTRICAL CHARACTERISTICS CAN AND WILL CHANGE IF PRE-HEAT, USED IN THE REFLOW PROCESS IS NOT DEFINED AND CAREFULLY FOLLOWED.

USRELAYS FOUND THAT PRE-HEATED TEMPERATURES IN USE AT A NUMBER OF COMPANYS VARY FROM NO PRE-HEAT TO AS HIGH AS 330 DEG. C. FOR SEVERAL MINUTES. NO STANDARD APPEARS TO EXIST AND THE COMPONENT MANUFACTURER SUFFERS DUE TO THIS LACK OF STANDARDIZATION.

ONE COMMON DENOMENATOR HAS RISEN HOWEVER. IT IS FIELD FAILURE RATE. OUR SURVEY HAS SHOWN THAT OUR SMT REED RELAY CUSTOMERS WHO USE A PRE-HEAT OF 100 DEG. C. OR LESS, EXHIBIT LITTLE OR NO SOLDER RELATED COMPONENT FAILURES AT THE FINAL TEST AREA OR IN EARLY FIELD FAILURES.

WE THEREFORE SUGGEST THAT A PRE-HEATED TEMPERATURE NOT TO EXCEED 100 DEG. C. IS IDEAL, ALONG WITH A REFLOW TIME OF 20 TO 80 SECONDS.



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USRELAYS AND TECHNOLOGY, INC.
 13851 ROSWELL AVENUE UNITS F/G CHINO, CALIF. 91710 U.S.A.

TEL (909) 902-5112
 FAX (909) 902-5122
WWW.USRELAYS.COM