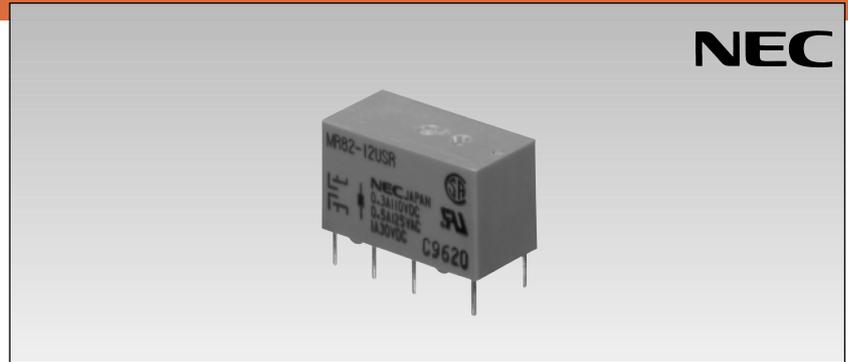


- DIL package
- Fully sealed for immersion cleaning
- Bifurcated crossbar contacts for high reliability
- High sensitivity coil (200mW)
- UL/CSA recognised



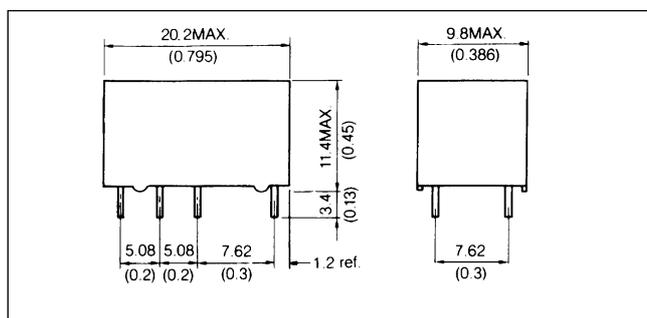
Part Numbers

Part Number	Nominal Voltage (VDC) Range 80% - 125% at 20°C	Coil Resistance (Ω) $\pm 10\%$ at 20°C	Must Operate Voltage (VDC) at 20°C	Must Release Voltage (VDC) at 20°C
MR82-4.5USR	4.5	101	3.15	0.23
MR82-5USR	5	126	3.6	0.25
MR82-6USR	6	180	4.2	0.30
MR82-9USR	9	406	6.3	0.45
MR82-12USR	12	720	8.4	0.60
MR82-24USR	24	2880	16.8	2.4

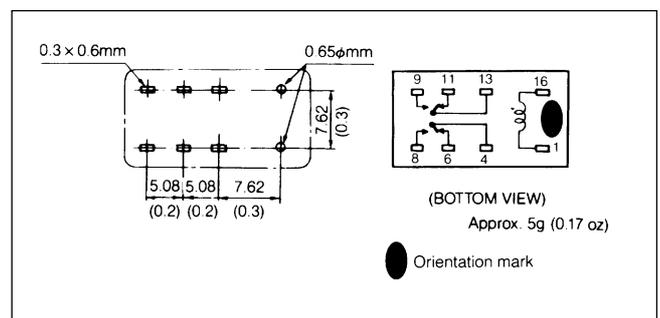
Specifications

Contact form		2 Form C	
Contact rating	Maximum switching power	60W	125 VA
	Maximum switching voltage	200 VDC	250 VAC
	Maximum switching current	2A	2A
	Maximum carrying current	2A	2A
Initial contact resistance		50m Ω Max.	
Contact material		Silver alloy with gold overlay	
Nominal operating power		Approx. 200mW (at 25°C, 77°F)	
Operate time (excluding bounce)		Approx. 5.5ms	
Release time (excluding bounce)		Approx. 2ms	
Insulation resistance		1,000 M Ω at 500 V. DC	
Breakdown voltage	Between open contacts	500 VAC (for 1 minute)	
	Between adjacent contacts	1000 VAC (for 1 minute)	
	Between coil and contacts	1000 VAC (for 1 minute)	
Coil temperature rise		22°C at nominal coil voltage (200 mW)	
Shock resistance - 1/2 sine 11 ms - MIL 202E-213B		75 G (misoperating)	
Vibration resistance - 10-500Hz Amp. 1.5mm - MIL 202E-204C		100 G (misoperating)	
Electrostatic capacitance	Between open contacts	Approx. 2pF	
	Between adjacent contacts	Approx. 2pF	
	Between coil and contacts	Approx. 3pF	
Ambient temperature		-40°C to +85°C	
Life expectancy	Mechanical	1 x 10 ⁷ operations	
	Electrical	1 x 10 ⁶ operations (at 24 VDC, 1A resistive)	
		3 x 10 ⁶ operations (at 24 VDC, 0.5A resistive)	
Weight		Approx. 5 grams	

Dimensions mm (inch)

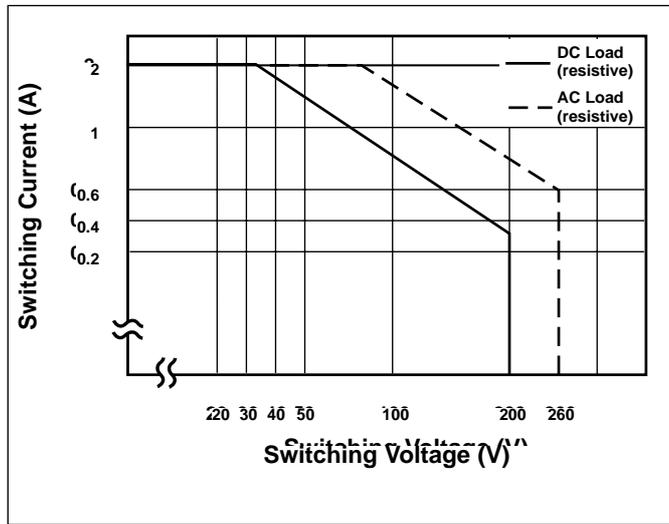


PCB Layout and Schematics

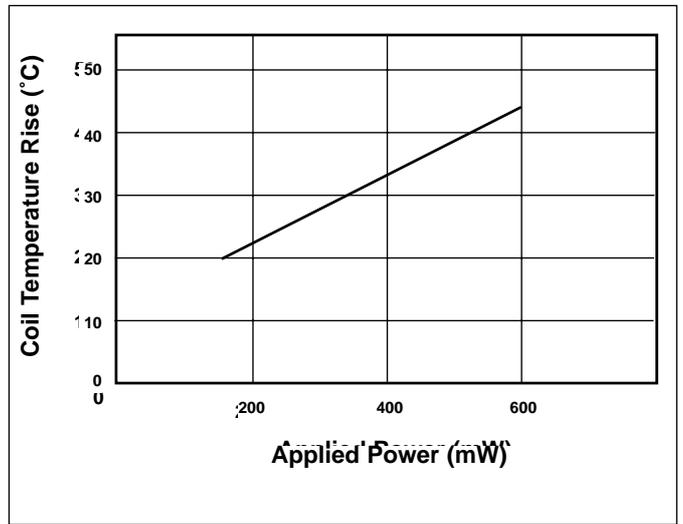


Typical Performance Data

Switching Capacity



Coil Temperature Rise



Operate Time and Release Time

