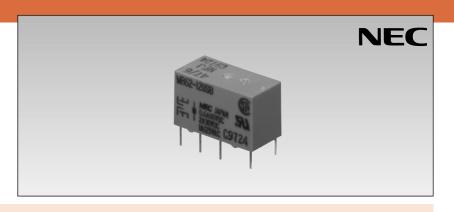
IMO

DPDT Signal Relay

- DIL package
- BT type 47 approved
- 1500V FCC surge between coil and contacts and adjacent contacts
- Fully sealed for immersion cleaning
- Bifurcated crossbar contacts for high reliability
- **■** UL/CSA approved



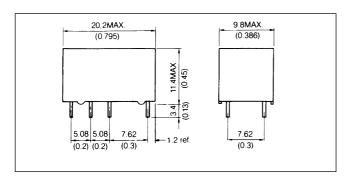
Part Numbers

Part Number	B.T. Type	Nominal Voltage (VDC) Range 80% - 125% at 20°c	Coil Resistance (Ω) ±10% at 20°c	Test Operate Current (mA) at 20°c	Limit Circuit Current (mA) at 20°c
MR62-4.5USB	47/5	4.5	36	80	112
MR62-9USB	47/9	9	200	32.5	45.5
MR62-12USB	47/6	12	280	27	38
MR62-24USB	47/7	24	1,050	14	20
MR62-48USB	47/8	48	4,000	7	10

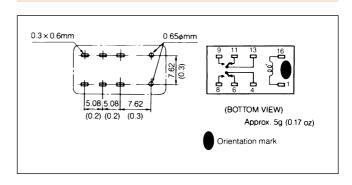
Specifications

Contact form		2 Form C		
	Maximum switching power	60W	125 VA	
Contact rating	Maximum switching voltage	220 VDC	250 VAC	
Contact rating	Maximum switching current	2A	2A	
	Maximum carrying current	3A	3A	
Initial contact resistance	·	50m Ω Max.		
Contact material		Silver alloy with gold overlay		
Nominal operating power		Approx. 550mW (at 25°C, 77°F)		
Operate time (excluding boun	ice)	Approx. 3ms		
Release time (excluding boun	ce)	Approx. 2ms		
Insulation resistance		$1,000~\mathrm{M}\Omega$ at $500~\mathrm{VDC}$		
	Between open contacts	500 VAC (for 1 minute)		
Breakdown voltage	Between adjacent contacts	1000 VAC (for 1 minute)		
	Between coil and contacts	1000 VAC (for 1 minute)		
Coil temperature rise		40°C (at nominal coil voltage)		
Shock resistance - 1/2 sine 111	mS - MIL 202E-213B	30 G (misoperating)		
Vibration resistance – 10-500	Hz Amp. 1.5mm - MIL 202E-204C	100 G (misoperating)		
	Between open contacts	Approx. 2pF		
Electrostatic capacitance	Between adjacent contacts	Appro	Approx. 2pF	
	Between coil and contacts	Approx. 3pF		
Ambient temperature		-40°C to +70°C		
	Mechanical	1 x 10 ⁷ operations		
Life expectancy	Electrical	1 x 10 ⁶ operations (at 24 VDC, 1A resistive)		
	Electrical	3 x 10 ⁶ operations (at 24 VDC, 0.5A resistive)		
Weight		Approx. 5 grams		

Dimensions mm (inch)



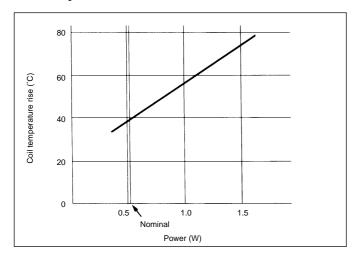
PCB Layout and Schematics



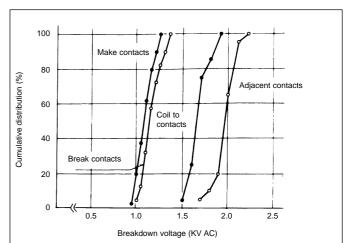


Data

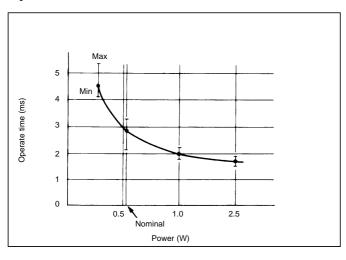
Coil Temperature Rise



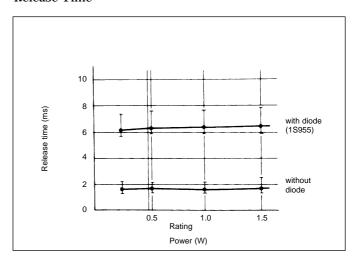
Breakdown Voltage



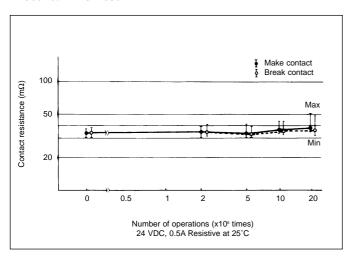
Operate Time



Release Time



Electrical Life Test



Electrical Life Test

