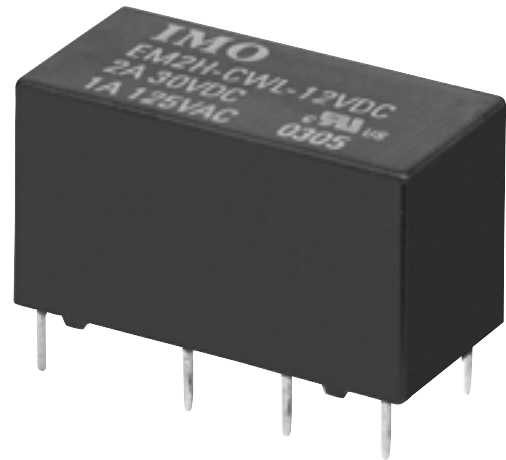


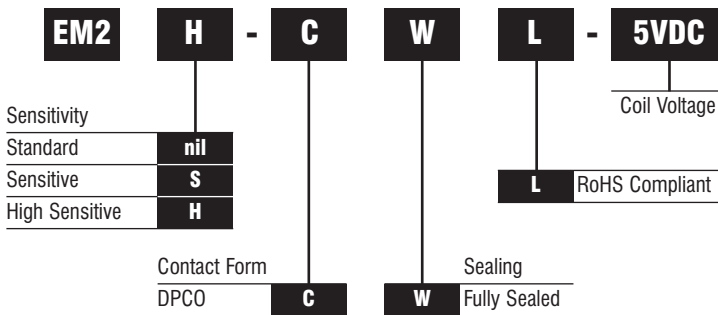
# Subminiature Signal Relay EM2



- DPCO DIL Package
- High switching capacity 60W, 125VA
- High coil sensitivity 150mW available
- Fully sealed for immersion cleaning
- UL/cUL Approved
- RoHS Compliant



## Options and ordering codes



## Contact Data

Contact arrangement	2C
Initial Contact Res. Max	50mΩ
Contact Material	AgNi (Au Clad)
Contact Rating (Res. Load)	2A 30VDC 1A 125VAC
Max. switching power	125VA/60W
Max. switching voltage	120VDC/240VAC
Max. switching current	2A
Min. Applicable load	10mV 10μA
Mechanical life	1x10 <sup>8</sup> OPS
Electrical life	1x10 <sup>5</sup> OPS (at 2A 30VDC) 3x10 <sup>5</sup> OPS (at 1A 30VDC)

## Coil

Coil power	Standard: 360mW	Sensitive: 200mW
	High Sensitive: 150mW	

## Characteristics

Initial Insulation Resistance	1000MΩ 500VDC	
Dielectric Strength	Between coil and contacts	1500VAC 1min.
	Between open contacts	1000VAC 1min.
Operate time (at nomi. Volt)	Max. 6ms	
Release time (at nomi. Volt)	Max. 4ms	
Ambient temperature	-40 °C to 85 °C	
Humidity	40% to 85% R.H.	
Temperature rise	Max. 65 °C	
Vibration resistance	DA: 1.5mm 10 to 55Hz	
Shock Resistance	Functional	196m/s <sup>2</sup> (20g)
	Destructive	980m/s <sup>2</sup> (100g)
Termination	PCB	
Unit weight	Approx. 5g	
Construction	Sealed	

# Subminiature Signal Relay EM2



## Coil Data

EM2 Type	Standard (360mW)			20°C
Coil Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Allow Voltage VDC
3	2.25	0.3	30±10%	4.5
5	3.75	0.5	90±10%	8.0
6	4.50	0.6	130±10%	10.0
9	6.80	0.9	280±10%	14.5
12	9.00	1.2	450±10%	18.5
15	11.3	1.5	625±10%	22.0
24	18.0	2.4	1600±10%	35.5
48	36.0	4.8	4000±10%	56.0

EM2H Type	High Sensitive (150mW)			20°C
Coil Voltage VDC	Pick-up Voltage VDC (max)	Drop-out Voltage VDC (min)	Coil Resistance $\Omega \pm 10\%$	Allow Voltage VDC (max)
3	2.4	0.3	60±10%	7.0
5	4.0	0.5	167±10%	11.5
6	4.8	0.6	240±10%	13.8
9	7.2	0.9	540±10%	20.8
12	9.6	1.2	960±10%	27.7
15	12.0	1.5	1500±10%	34.6
24	19.2	2.4	3840±10%	55.2

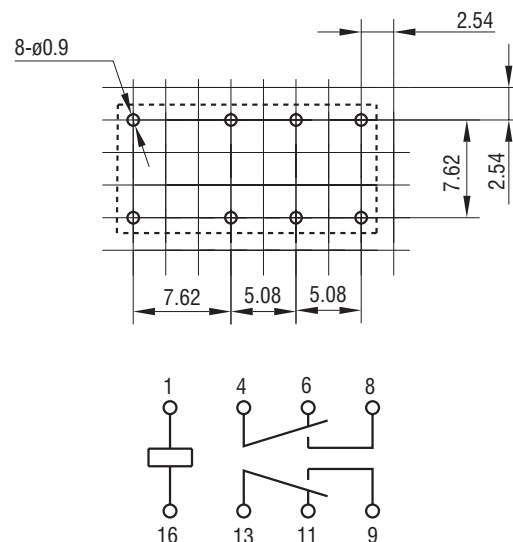
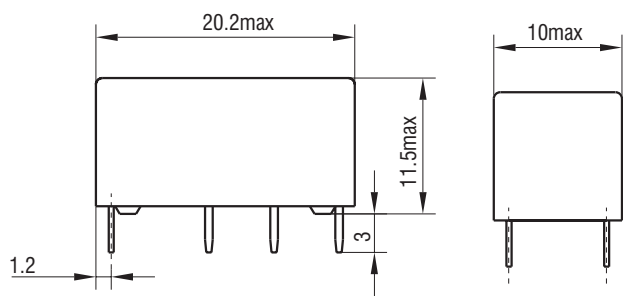
EM2S Type	Sensitive (200mW)			20°C
Coil Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Allow Voltage VDC
3	2.25	0.3	45±10%	6
5	3.75	0.5	125±10%	10
6	4.50	0.6	180±10%	12
9	6.80	0.9	405±10%	18
12	9.00	1.2	720±10%	24
15	11.3	1.5	1125±10%	30
24	18.0	2.4	2880±10%	48

## Safety Approval Ratings

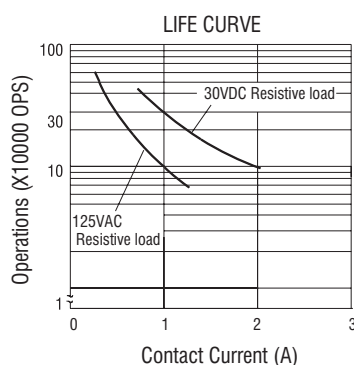
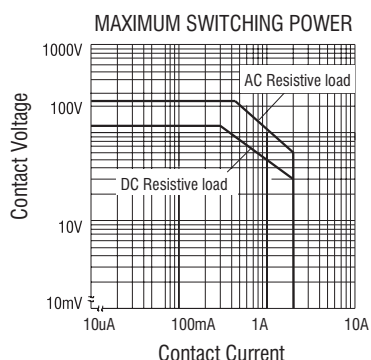
UL	2A 30VDC 1A 125VAC
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## Outline dimensions (mm)

Wiring diagram and PC Board layout



## Characteristic Curve



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