

	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A30956	PAGE 1/4
SPECIFICATION		Edition	9	

EPR MOS RELAY (6PIN)

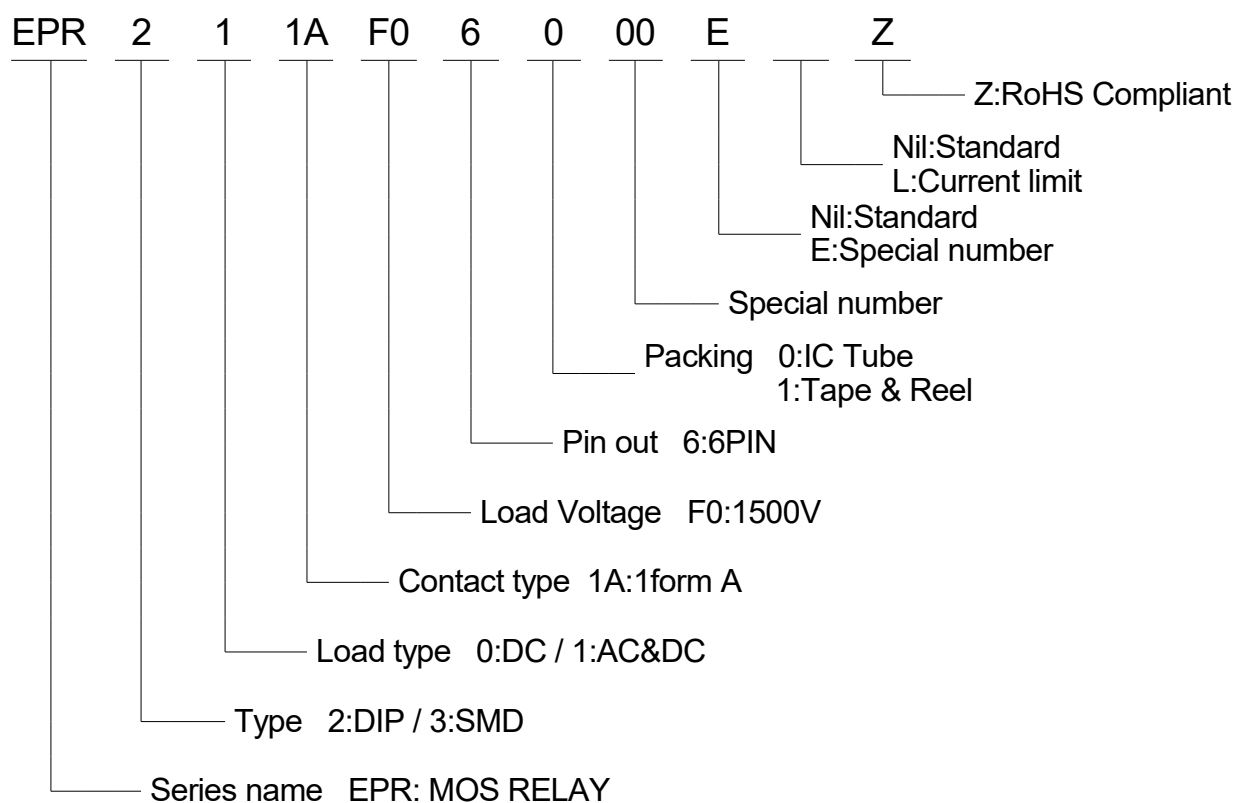
1. FEATURES :

- 1.1 No EMI/RFI Generation
- 1.2 High reliability
- 1.3 No moving parts
- 1.4 Low drive power requirement (TTL/CMOS Compatible)
- 1.5 Low On-state Resistance
- 1.6 3750 Voltage input/output isolation
- 1.7 Arc-free with no snubbing circuits
- 1.8 Machine insertable or wave solderable

2. APPLICATION :

- 2.1 Telecommunications
- 2.2 Instrumentation
- 2.3 Medical equipment
- 2.4 Security
- 2.5 Industrial control

3. PART NUMBERING SYSTEM:



	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A30956	PAGE 2/4
S P E C I F I C A T I O N		Edition	9	

4. SPECIFICATION :

Part Number(6PIN)	Marking	PACKING	Contact Form
EPR211AF06000EZ DIP / 1500VAC&DC	EPR61AF0T	50 pcs/Tube	1A

Absolute Maximum Ratings (Ambient Temperature: 25°C)

ITEM			Symbol	Value	UNIT	note
Input	Continuous LED Current		I _F	50	mA	I _L =Rating
	Reverse current		I _R	10	μA	V _R =5V
	Input Power Dissipation		P _{In}	75	mW	
Output	Load voltage (AC peak or DC)		V _L	1500	V	
	Continuous Rated Load Current	SOP	I _L	---	mA	I _F =5mA
		DIP/SMD		30		
	Peak current	SOP	I _L peak	---	mA	10ms
		DIP/SMD		90		
	Output Power Dissipation		P _{OUT}	450	mW	
Input/ Output	Total Power Dissipation		P _T	500	mW	
	I/O Isolation voltage	SOP	V _{IO}	---	VAC	R.H.≤60% 1min
		DIP/SMD		3750		
Temperature limits			Operating	T _{OP}	-40°C to +85°C(-40°F to +185°F)	
			Storage	T _{STG}	-40°C to +100°C(-40°F to +212°F)	

Electrical Specifications(Ambient temperature:25°C)

ITEM		Symbol	MIN.	TYP	MAX	UNIT	note
Input	Forward voltage	V_F	1.0		1.4	V	I_F =5mA
	Forward current, switch turn-on	$I_{F ON}$		0.5	2	mA	I_L =10mA
	Forward current, switch turn-off	$I_{F OFF}$	0.05	0.4		mA	I_L =100uA
Output	On-state resistance	R_{ON}		180	300	Ohm	I_F =5mA, I_L =Rating Within 10ms on time
	Off-state Leakage current	I_{LEAK}			1	μ A	V_L =Rating
	Turn-On Time	T_{ON}			1	ms	I_F =5mA, I_L =Rating
	Turn-Off Time	T_{OFF}		0.05	0.2	ms	
	Output Capacitance	C_{OUT}		---		pF	f =1MHz
Input/ Output	I/O Capacitance	C_{IO}		1		pF	f =1MHz
	I/O Isolation resistance	R_{IO}	5			GΩ	DC=500V delay 2sec

	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A30956	PAGE 3/4
SPECIFICATION		Edition	9	

RECOMMENDED OPERATING CONDITIONS

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward Current	IF	5	10	25	mA
Operating Temperature	T _{opr}	-20		65	°C

5. PACKING:

5.1 PACKING METHOD

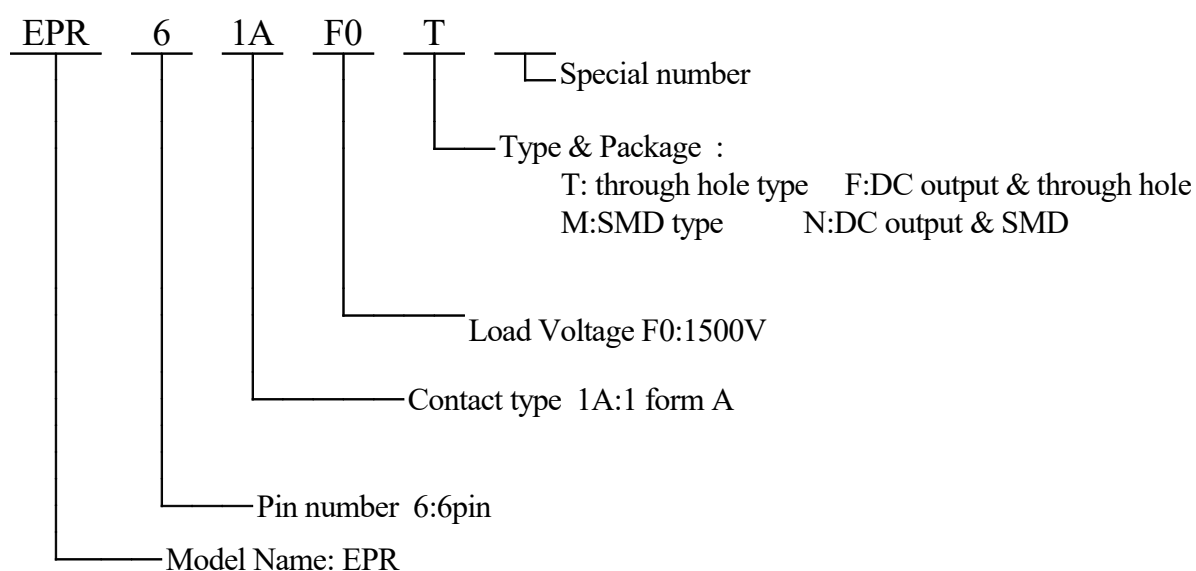
All relays are packed into IC tubes as an inner packing unit, and ten IC tubes bundled together with rubber bands.

5.2 Relays may also be packed using tape & reel methods.

5.3 INFORMATION ON LABEL (stuck to each bundle of IC tubes).

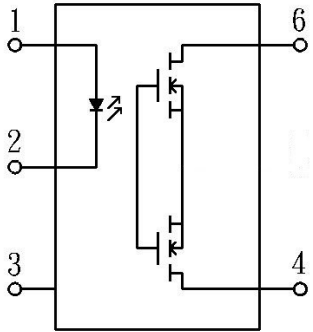
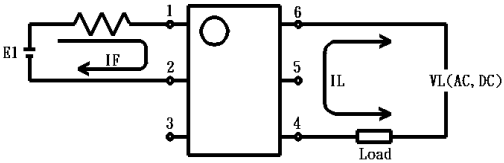
- | | |
|-----------------|-------------------------|
| (1) DESCRIPTION | (5) ECE MARK |
| (2) LOT NO. | (6) QC STAMP |
| (3) QUANTITY. | (7) DATE. |
| (4) TESTER NO. | (8) MANUFACTURERS NAME. |

6. MARKING SYSTEM:



	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A30956	PAGE 4/4
SPECIFICATION		Edition	9	

7. CIRCUIT DIAGRAM & APPLICATION:

Circuit diagram(6 PIN)	Load type	Configuration	Application
Form A 	AC/DC	1	
	DC	2	
	DC	3	

8. DRAWINGS :

Dimensions & P.C.B. layout

see attached drawing.

DIMENSIONS Unit:mm(inch)

(DIP TYPE)

(SMD TYPE)

P.C.B. LAYOUT (TOP VIEW)

P.C.B. LAYOUT (TOP VIEW)

[illegible]