

# DATA SHEET OF EP2R-B3G1

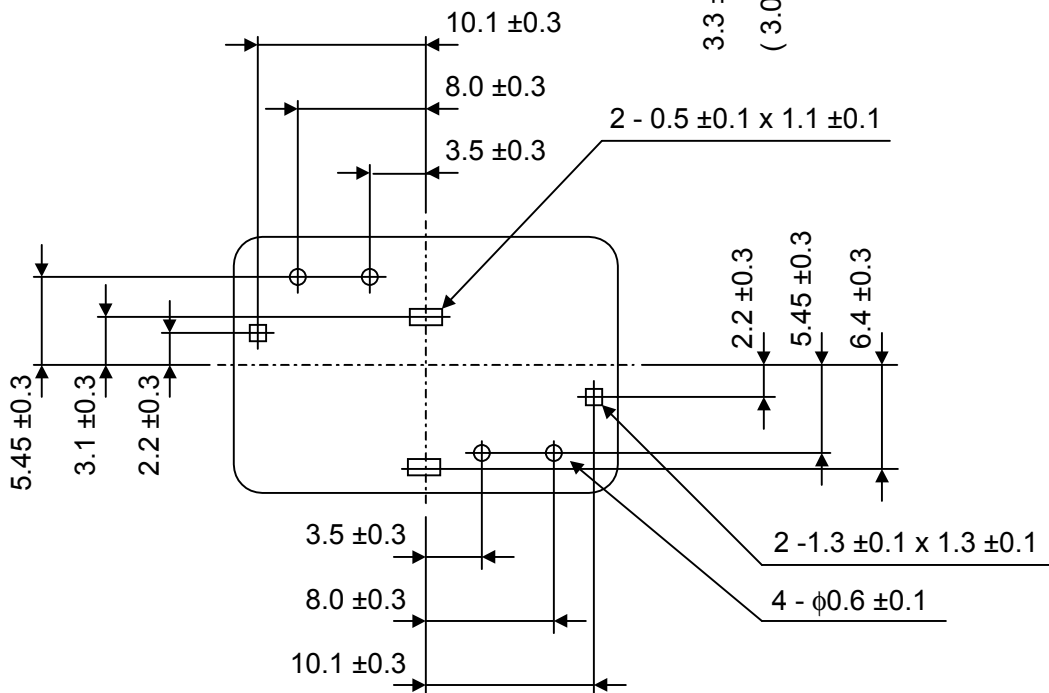
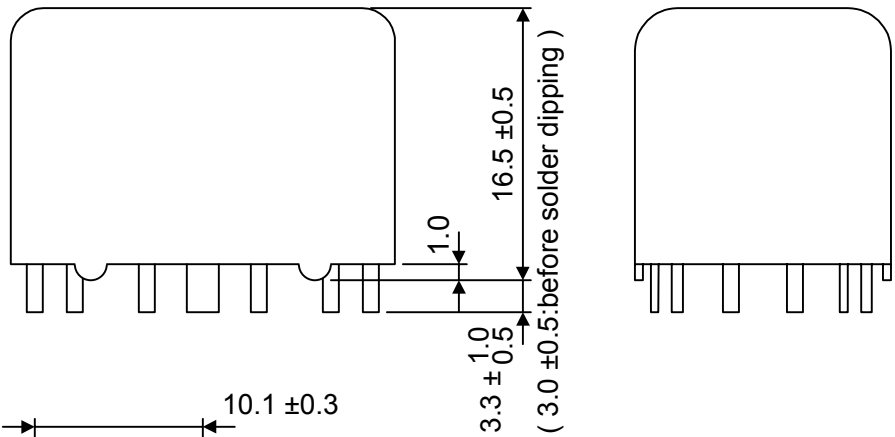
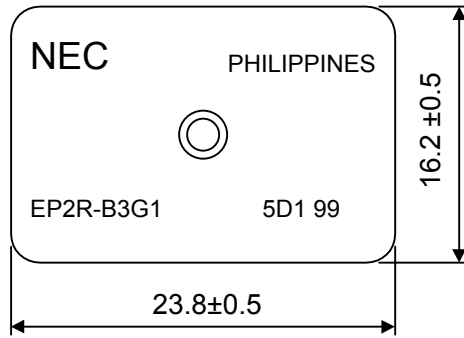
EMOS05-2012-01  
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 Solution Engineering Division  
 Networking Devices Operations Unit  
 NEC TOKIN Corporation

at +20°C

Items		EP2R-B3G1
Contact form		1 form c x 2 (H-Bridge)
Contact material		Silver oxide complex alloy
Contact rating	Max. switching voltage	16Vdc
	Max. switching current	30A at 16Vdc
	Contact resistance	50mΩ max. at 7A/6Vdc
Operate time ( excluding bounce, at nominal voltage )		5ms typical
Release time ( excluding bounce, at nominal voltage )		2ms typical without diode
Nominal voltage		12Vdc
Nominal operate power		640mW
Coil resistance		225Ω±10%
Must operate voltage		6.5Vdc
Must release voltage		0.9Vdc
Coil temperature rise		50°C/W
Insulation resistance		100MΩ at 500Vdc
Breakdown voltage	Between open contacts	500Vac min. for 1minute
	Between coil and contact	500Vac min. for 1minute
Shock resistance	Misoperation	98m/s <sup>2</sup> ( 10G )
	Destructive failure	980m/s <sup>2</sup> ( 100G )
Vibration resistance	Misoperation	10 to 300Hz, 43 m/s <sup>2</sup> ( 4.4G )
	Destructive failure	10 to 500Hz, 43 m/s <sup>2</sup> ( 4.4G ) for 200hours
Ambient temperature		-40 to +125°C
Life expectancy	Mechanical	1000k cycles
	Electrical	100k cycles 14Vdc / 25A motor lock
Enclosure		Unsealed
Weight		15g typical

# DIMENSIONS

Unit: mm



## PC BOARD PAD LAYOUT / PIN-OUT

