LAN Components

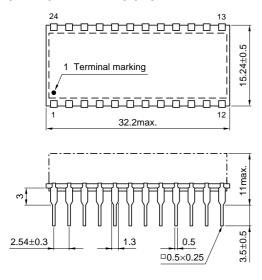
HIM Series HIM-7000

Interface DIP

FEATURES

- This transceiver module contains all necessary components, such as the DC to DC converter, driver IC (equivalent to type 75188), receiver IC (equivalent to type 75189), and capacitors. They can thus be implemented without additional external parts.
- It can be used for applications with isolated signal lines.
- A built-in standby mode activated by switching the STBY terminal high – provides a low-current idle state.

SHAPES AND DIMENSIONS



Weight: 3.9g typ.

Dimensions in mm

BLOCK DIAGRAM < 24 Vcc DC to DC converter V₀3 -O 23 NC 0.1μF 22 Rout1 330pF 21 Rout2 330pF Rin3 5 20 Rout3 330pF 19 Rout4 Rin4 6 > 330pF D 18 Dout1 D 17 Dout 2 Din₂ 8 Din3 9 D 16 Dout3 Din4 10 > D 15 Dout4 14 V₀₁ V02 11 $10 k \Omega$ GND 12 O < 13 STBY $10k\Omega$

MAXIMUM RATING

Temperature range	Operating	TOPR	0 to +70°C
	Storage	Tstg	−20 to +85°C
Storage humidity range		Н	20 to 95(%)RH [Maximum wet-bulb temperature:38°C]
Power supply voltage	Э	Vcc	0 to 5.5V
Output voltage 1,2		V01, V02	±15V
Output voltage 3		Voз	+5.5V
Output current 3		Юз	+30mA
Driver input voltage		VDI	-15 to +7V
Driver output voltage)	VDO	-15 to +15V
Receiver input voltage		VRI	-30 to +30V
Receiver output current		Iro	20mA



LAN Components

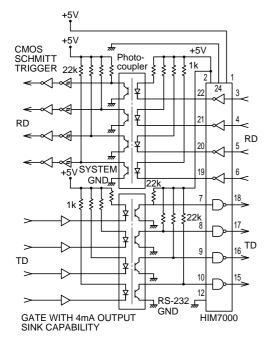
HIM Series HIM-7000

Interface DIP

Power supply					Minimum	Typical	Maximum	Measuring condition
Input voltage			Vcc	V	4.75	5	5.25	
Input current			Icc	mA	_	215	275	VDI=2V VRI=2.25V
Output voltage	1*1		Vo ₁	V	_	10	15	VDI=2V VRI=2.25V
	2*1		VO2	V	_	-10	- 15	VDI=2V VRI=2.25V
	3		Voз	V	4.5	5	5.5	
Output ripple voltage*2		Vor	mV	_	200	600		
Control terminal		When ON	Iron	mA		-1.1	- 3	
		Leakage current	IRLEAK	μΑ		_	-20	
Primary-secondary insulation withstand voltage Eac		VBK	V	500				
Receiver					Minimum	Typical	Maximum	Measuring condition
Threshold voltage		VRIH	V	2.25	_	_		
			VRIL	V	_	_	0.65	
Output voltage		VROH	V	2.4	4	Vcc	VRI=0.65V IROH=-0.5mA	
			VROL	V	_	0.2	0.5	VRI=2.25V IROL=10.5mA
Driver (be connected S	TBY and G	GND terminals)			Minimum	Typical	Maximum	Measuring condition
Threshold voltage		VDIH	V	2		_		
			VDIL	V	_	_	0.8	
Output voltage		VDOH	V	7	8.5	15	VRI=0.8V RL=3kΩ	
			VDOL	V	– 7	-8.5	–15	VRI=2V RL=3kΩ

^{*1} Power can not be supplied to the external load from output voltage 1 or 2.

APPLICATION EXAMPLE HIM-7000 ISOLATION TYPE RS-232C





^{*2} A capacitor can be connected between terminals No.14 to 12, No.11 to 12 to improve the output ripple voltage.