

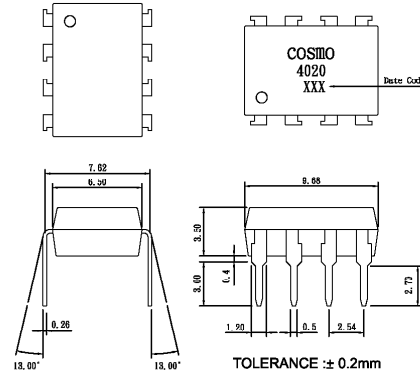
Features

1. High current transfer ratio ($V_{CE0}:300V$ MIN)
(CTR:MIN.600% at $I_F=1mA$, $V_{ce}=2V$)
2. High isolation voltage between input and output
(Viso:5000Vrms).
3. Compact dual-in-line package.
4. Available package : DIP/ SMD/ H.

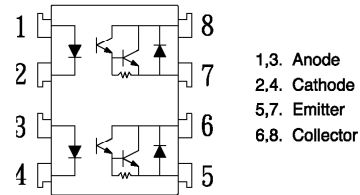
Applications

1. System appliances, measuring instruments.
2. Industrial robots.
3. Copiers, automatic vending machines.
4. Signal transmission between circuits of different potentials and impedances.
5. Telephone sets.
6. Copiers, facsimiles.
7. Interface with various power supply circuits, power distribution boards.
8. Numerical control machines.

Outside Dimension : Unit (mm)



Schematic : Top View



Absolute Maximum Ratings

($T_a=25^\circ C$)

Parameter	Symbol	Rating	Unit
Input	Forward current	I_F	50
	Peak forward current	I_{FM}	1
	Reverse voltage	V_R	6
	Power dissipation	P_D	70
Output	Collector-emitter voltage	V_{CE0}	300
	Emitter-collector voltage	V_{ECO}	0.1
	Collector current	I_C	150
	Collector power dissipation	P_C	200
Total power dissipation	P_{tot}	200	
Isolation voltage 1 minute	Viso	5000	
Operating temperature	T_{opr}	-30 to +100	
Storage temperature	T_{stg}	-55 to +125	
Soldering temperature 10 second	T_{sol}	260	

Electro-optical Characteristics

($T_a=25^\circ C$)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	$I_F=20mA$	—	1.2	1.4	V
	Peak forward voltage	$I_{FM}=0.5A$	—	—	3.5	V
	Reverse current	$V_R=4V$	—	—	10	μA
	Terminal capacitance	$V=0, f=1kHz$	—	30	—	pF
Output	Collector dark current	$V_{CE}=200V, I_F=0$	—	—	1	μA
Transfer characteristics	Current transfer ratio	$I_F=1mA, V_{CE}=2V$	600	—	9000	%
	Collector-emitter saturation voltage	$I_F=20mA, I_C=5mA$	—	—	1.5	V
	Isolation resistance	DC500V	5×10^{10}	—	—	ohm
	Floating capacitance	$V=0, f=1MHz$	—	0.6	1.0	pF
	Cut-off frequency	$V_{CC}=5V, I_C=2mA, R_L=100ohm$	—	7	—	kHz
	Response time (Rise)	$V_{CE}=2V, I_C=20mA, R_L=100ohm$	—	60	300	μs
	Response time (Fall)		—	50	250	μs

