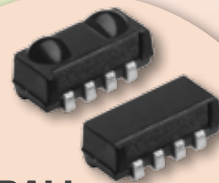




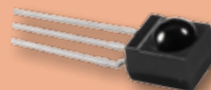
Vishay Intertechnology, Inc.

IR Receivers



HEIMDALL

Top Performance in a Miniature Double Lens Package



MOLD

Good Transmission Distance



BELOBOG

Superior Performance and Very Low-Profile Design



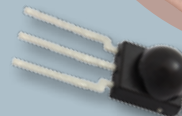
MINICAST

Attractive Price and Performance



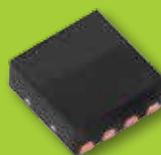
PANHEAD

Universal Surface-Mount Receiver



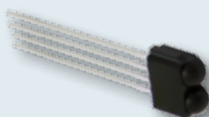
MINIMOLD

Best Transmission Distance



VSOP

Maximum Freedom for Designers



TVCAST

Industry-first native top-view receiver in a through-hole package

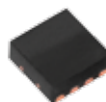


IR RECEIVERS

Focus Products

Vishay is the world's leading supplier of infrared (IR) receivers. No other supplier offers a similar breadth of products, holders, application and technical support, and overall knowledge of IR communication. Our customers have confidence that our IR receivers will receive remote control signals while filtering out noise in the most demanding ambient environments. Vishay's IR receivers are used for remote control and for transmissive and reflective sensors.

Code, Applications	Carrier Freq. (kHz)	Best AGC						
			Belobog 3.95 W x 3.95 H x 0.8 D (mm)	Belobog Shield 4.3 W x 4.3 H x 1.0 D (mm)	Heimdall No Lens 6.8 W x 3.0 H x 2.3 D (mm)	Heimdall 6.8 W x 3.0 H x 3.2 D (mm)	Panhead 7.5 W x 5.3 H x 4.0 D (mm)	TVCastSMD 6.8 W x 2.6 H x 5.3 D (mm)
Sony 12 bits, 15 bits, and 20 bits	40	S			TSOP75S40FW	TSOP75S40F		
RC-5	36	4	TSOP37436 TSOP57436	TSOP37436H TSOP57436H	TSOP75436W	TSOP75436	TSOP36436	TSOP39436TR1
RC-6	36				TSOP77436W	TSOP77436	TSOP6436	TSOP59436TR1
Panasonic	36.7							
NEC	38	4	TSOP37438 TSOP57438	TSOP37438H TSOP57438H	TSOP75438W	TSOP75438	TSOP36436	TSOP39438TR1
Sharp					TSOP77438W	TSOP77438	TSOP6438	TSOP59438TR1
r-step								
r-step	56	4	TSOP57456	TSOP37456H TSOP57456H	TSOP75456W	TSOP75456	TSOP36456	TSOP39456TR1
Thomson RCA					TSOP77456W	TSOP77456	TSOP6456	TSOP59536TR1
MCIR	36	3 or 5	TSOP37336 TSOP57336	TSOP37336H TSOP57336H	TSOP75536W TSOP77336W	TSOP75536 TSOP77336	TSOP36536 TSOP6336	TSOP39538TR1 TSOP59538TR1
Mitsubishi	38	3 or 5	TSOP37338 TSOP57338	TSOP37338H TSOP57338H	TSOP75538W	TSOP75538	TSOP36538	TSOP39538TR1
RECS-80 code		3 or 5			TSOP77338W	TSOP77338	TSOP6338	TSOP59538TR1
r-map		3 or 5						
XMP-1, XMP-2	38	3	TSOP57338	TSOP57338H	TSOP75338W	TSOP75338	TSOP36338	TSOP39338TR1
Presence sensor (Fixed gain)	38	-	TSSP57038	TSSP57038H		TSSP77038	TSSP6038	
Proximity sensor	38	-	TSSP57P38	TSSP57P38H		TSSP77P38	TSSP6P38	
Code learning / repeater	Carrier out	-				TSMP77000	TSMP6000	



Also available
[VSOP Remote Control IC without Photodiode](#)
 Surface mount 2.0 W x 2.0 H x 0.76 D (mm)



IR RECEIVERS

Focus Products

Holders and bends.
Over 60 different holders and 20 different
lead bend and cut options available.



Code, Applications	Carrier Freq. (kHz)	Best AGC				
			Mold 6.0 W x 6.95 H x 5.6 D (mm)	Minicast 5.0 W x 6.95 H x 4.8 D (mm)	Minimold 5.4 W x 6.35 H x 5.0 D (mm)	TVCast 6.8 W x 2.6 H x 5.3 D (mm)
Sony 12 bits, 15 bits, and 20 bits	40	S				
RC-5	36	4	TSOP34436	TSOP38436	TSOP33436	TSOP39436
RC-6	36		TSOP4436	TSOP58436	TSOP53436	TSOP59436
Panasonic	36.7					
NEC	38	4	TSOP34438	TSOP38438	TSOP33438	TSOP39438
Sharp			TSOP4438	TSOP58438	TSOP53438	TSOP59438
r-step						
r-step	56	4	TSOP34456	TSOP38456	TSOP33456	TSOP39456
Thomson RCA			TSOP4456	TSOP58456	TSOP53536	TSOP59536
MCIR	36	3 or 5	TSOP34536 TSOP4336	TSOP38536 TSOP58336	TSOP33538 TSOP53538	TSOP39538 TSOP59538
Mitsubishi	38	3 or 5	TSOP34538	TSOP38538	TSOP33538	TSOP39538
RECS-80 code		3 or 5	TSOP4338	TSOP58338	TSOP53538	TSOP59538
r-map		3 or 5				
XMP-1, XMP-2	38	3	TSOP34338	TSOP38338	TSOP33338	TSOP39338
Presence sensor (Fixed gain)	38	-	TSSP40..	TSSP58038	TSSP530..	
Proximity sensor	38	-	TSSP4P38	TSSP58P38		
Code learning / repeater	Carrier out	-		TSMP58000		
		-	TSMP4138	TSMP58138		
		-	TSMP4138			

Optoelectronics

Bright Ideas, Stellar Products

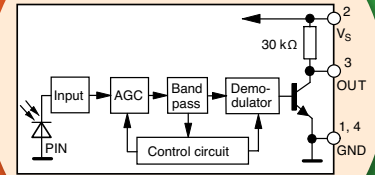


Advantages of Vishay IR Receivers

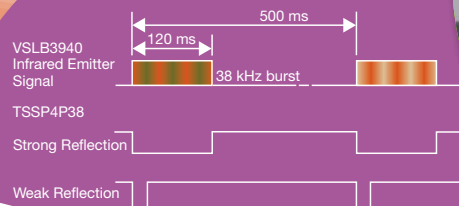
- Highest sensitivity and longest transmission distance
- Best overall noise suppression performance via automatic gain control (AGC)
- Lowest power consumption

For the Following Applications

- Remote control in consumer applications
- Transmissive and reflective sensors
- Learning function for universal remotes



Reflective Sensor



Light Barriers



Useful Links

- IR receiver home page
www.vishay.com/ir-receiver-modules/
- IR receiver selector guide
www.vishay.com/doc?49009
- Infrared light barriers
www.vishay.com/doc?49650
- Reflective sensors
www.vishay.com/doc?49664

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