



SKYWORKS®

Skyworks, through its wholly-owned subsidiary Isolink, provides screened and hermetically sealed high-reliability optocouplers, RF diodes and RFICs including multi-chip modules (MCM) for aerospace, defense, medical, extreme industrial and high-reliability markets and applications.

Optocoupler Product Selector Guide

Function	Description	Part Number	Condition	Min.	Max.	BVCEO (V)	Vcc Max. (V)	Switching Time (ns)	Isolation @ VDC 1 Sec.	Package Outline (Fig. Number)					
	Phototransistor Optocouplers	OLI110 ²	CTR @ I _F = 10 mA	100	-	60	-	25	1500	8					
		OLI249 ¹		CTR @ I _F = 1 mA	200	1200			40	1500	1				
		OLS249 ¹	-		200	1200			60	1000	2				
		OLC249 ¹			1000	9									
		OLS049	-	200	1200	60			1000	11					
		OLC049		1000	2										
		OLS449 ¹	-	1500	4000	65			1000	10					
		OLC449 ¹		1000	10										
		OLF249 ¹	-	200	1200	40			1000	5					
		OLH249 ¹		1000	3										
Dual Channel	OLS2249	200	1200	65	1500	6									
	OLS2449	1500	4000	65	1500	6									
Function	Description	Part Number	Condition	Min.	Max.	BVCEO (V)	Vcc Max. (V)	Propagation Delay (ns)	Isolation @ VDC 1 Sec.	Package Outline (Fig. Number)					
	High-speed Optocouplers	OLI300 ¹	CTR @ I _F = 10 mA	15	-	-	18	-	1500	1					
		OLS300 ¹		20				2	1500	2					
		OLH300 ¹		20				2	1000	3					
		Wideband Analog Optocouplers	OLI303	CTR @ I _F = 5 mA				9	20	80	-	-	6	1000	5
								5					6	1000	
								BW > 150 kHz					1500	1	
	Low Input Current Photodarlington Optocouplers	OLI400 ¹	CTR @ I _F = 0.5/5 mA	300/200	-	-	20	100	1500	1					
		OLS400 ¹							1000	2					
		OLF400 ¹							3000	1000	5				
		OLH400 ¹								1000	3				
		Dual Channel							OLH5730 ¹ /1 ¹	18	3000	4			
	High-speed Switching, High CMR, Logic Gate Optocouplers	OLI500	V _{OL} @ I _F = 5 mA	-	0.6 V	-	7	140	1500	1					
		OLS500							1000	2					
		OLF500							1000	5					
		OLH500							1000	3					
		Dual Channel	OLH5630/1	V _{OL} @ I _F = 10 mA	3000	4									
	Schmitt Trigger Optocouplers	OLI600	Threshold Current	-	10	-	18	300	1500	1					
		OLS600							1500	2					
		OLH6000/1							I _F @ V _{CC} = 15 V	1500	4				
	Linear Optocouplers	OLS700	Transfer Gain, K1/K2	0.75	1.25	-	-	-	1000	2					
		OLH7000							1000	4					
	Photovoltaic Optocouplers	OLI910	I _{sc} @ I _F = 10 mA	-7 μA	-	-	-	-	1500	7					
		OLS910							1500	2					
		OLH910							1500	4					
		OLI920							2500	8					

1. Radiation tolerant. 2. No base connection.

Custom Products and Special Requirements

- High-reliability screenings and multi-channel products are available upon request
- For solder dip, add "-1" to the part number. (i.e. OLH249 -> OLH249-1)
- For tape and reel, add "-2" to the part number. (i.e. OLH249 -> OLH249-2)
- For solder dip and tape and reel, add "-3" to the part number. (i.e. OLH249 -> OLH249-3)

Package Outline Drawings

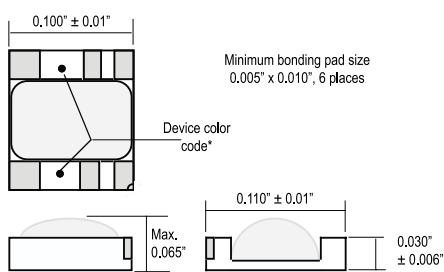


Fig. 16 - Lead Ceramic Chip Carrier for Hybrid Assembly

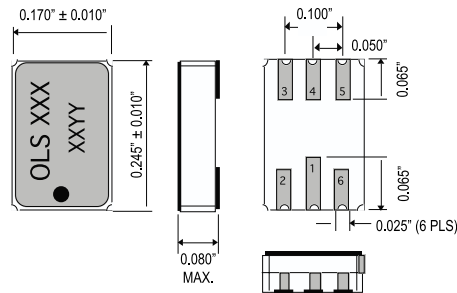


Fig. 2 Hermetic 6-pin Ceramic LCC Package

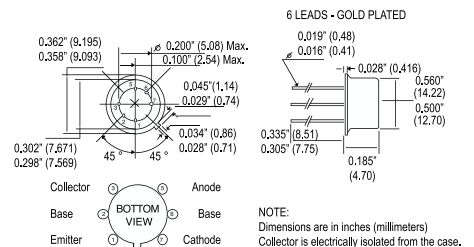


Fig. 3 Hermetic 6-pin to -5 Package

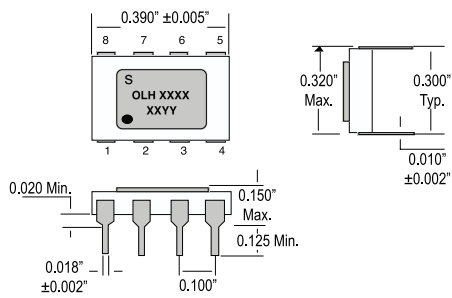


Fig. 4 Hermetic 8-pin DIP

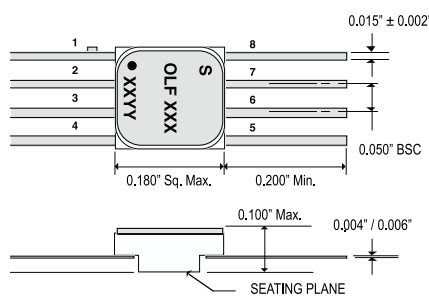


Fig. 5 Hermetic 8-pin Ceramic Flat Package

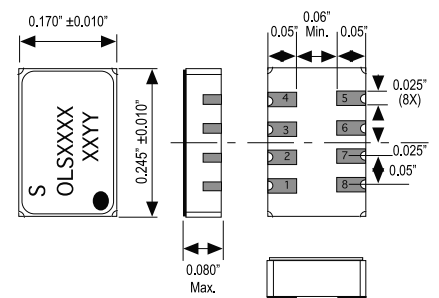


Fig. 6 Hermetic 8-pin Ceramic LCC Package

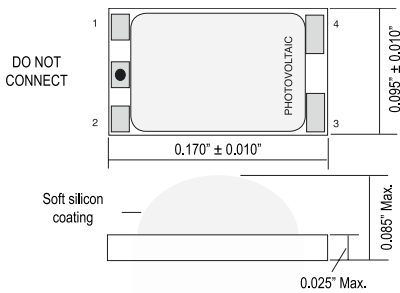


Fig. 7 4-Lead Ceramic Chip Carrier for Hybrid Assembly

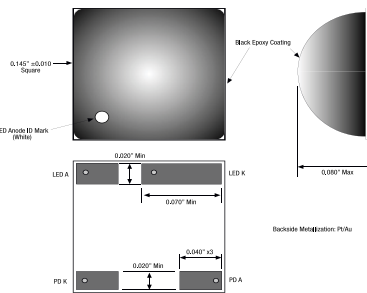


Fig. 8 4-Lead Surface Mounted Ceramic Chip Carrier

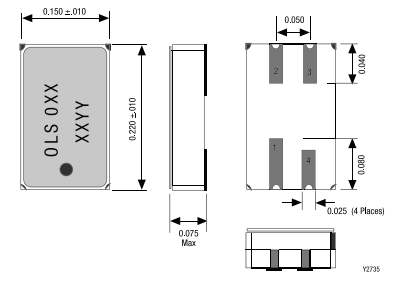


Fig. 9 Hermetic 4-pin Ceramic LCC Package

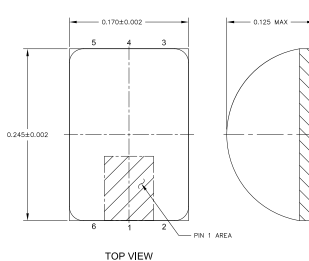


Fig. 10

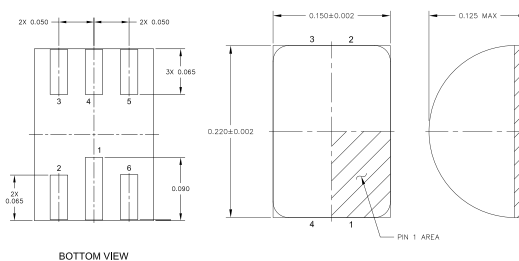


Fig. 11



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