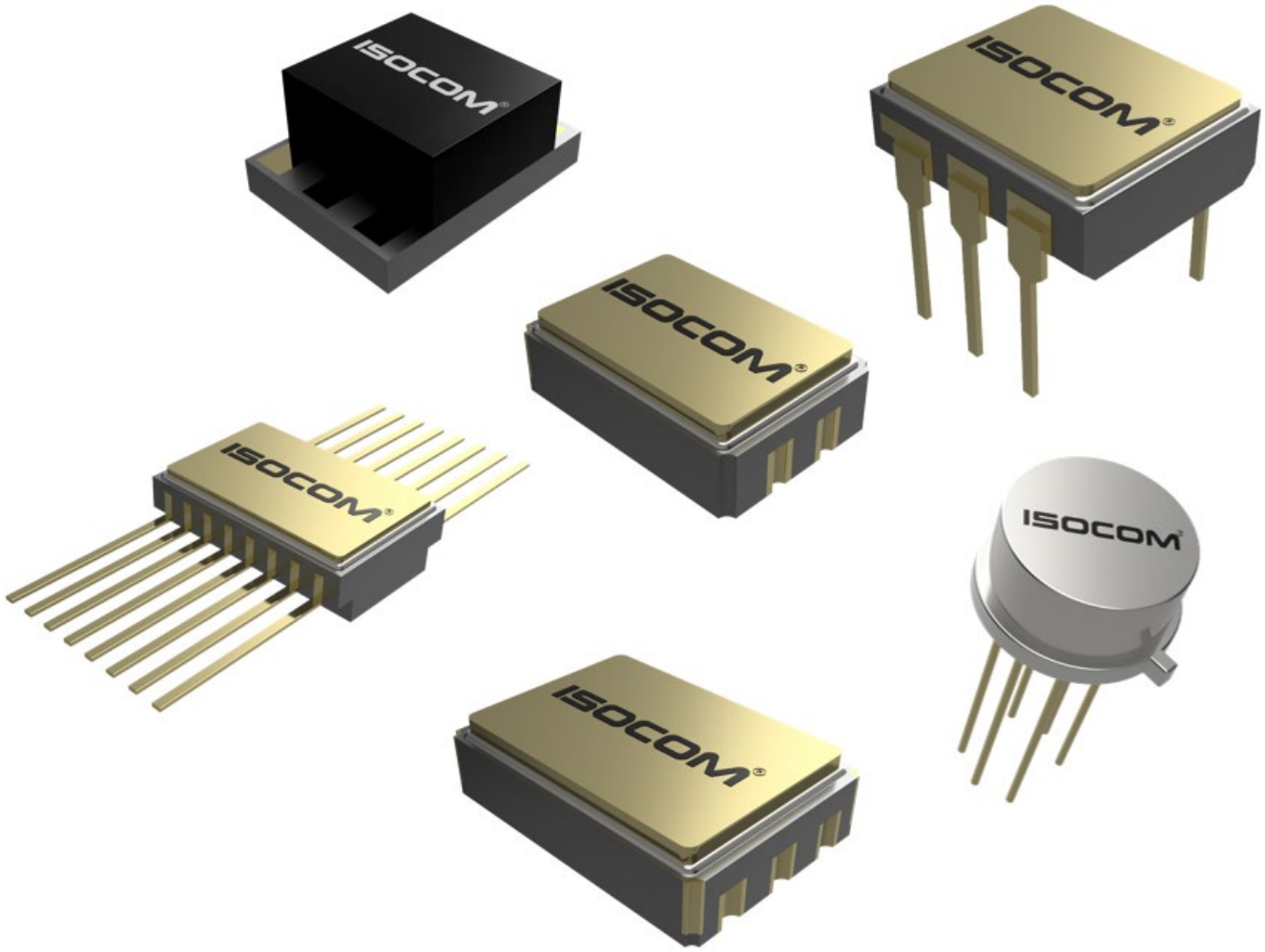
ISOCOM®
LIMITED



OPTOCOUPLER SELECTION GUIDE

ISOCOM LIMITED FACILITIES AND CAPABILITIES

ISOCOM Limited, based in the North East of England, specialises in custom packaging and hybrid assembly design with clean room manufacturing including wire bonding, die attaching and lid sealing. Our screening facilities and test capabilities include:

- ATE and bench test equipment for all component parameters
- High temperature handlers
- High/Low temperature forcing
- Die wafer probing
- High magnification inspection station
- Acceleration tests to 30,000G
- Vibration test to MIL and DESC levels
- Solderability tests
- Fluorocarbon pressurisation and gross and fine leak tests
- Endurance tests and environmental tests, including Temperature Cycling and various Burn-in processes
- Particle Impact Noise Detector (PIND) testing
- Hermetic Sealing of components
- Full production equipment for Hybrid and PCB assemblies
- Conceptual design to final production: components and systems
- Ceramic and metal product design.

We would welcome the opportunity to discuss how we can help you achieve your custom design requirements. Our contact details are set out below.

For sales enquiries, or further information, please contact our sales office at:
ISOCOM Limited • 2 Fern Court • Bracken Hill Business Park • Peterlee • County Durham • SR8 2RR • United Kingdom
Email: sales@isocom.uk.com • Tel: +44 (0)191 416 6546

CONTENTS

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RADIATION HARD CERAMIC OPTOCOUPLERS

DEVICE	
4N24	6
4N49	6
4N55	10
6N134	14
6N140A	12
CD500	6
CD501	6
CD650	14
CD651	14
CD750	12
CD850	10
CD5731	12
CH100	6
CH300	6
CH301A	7
CH350	14
CH370	12
CH380	10
CH390	12
CS200	7
CS201	7
CS224	7
CS249	7
CS600	14
CS700	12
CS800	10
CS801	10
CS3031	16
CS3032	16
CS3033	16
CS3041	16
CS3042	16
CS3043	16
CS3061	16
CS3062	16
CS3063	16
CS3081	16

DEVICE	
CS3082	16
CS3083	16
CS5700	13
CSL400	16
CSM100	7
CSM120	9
CSM121	9
CSM141A	13
CSM150	17
CSM151	17
CSM160-2	13
CSM160-4	13
CSM161-2	13
CSM161-4	13
CSM162-2	13
CSM162-4	13
CSM165-2	8
CSM165-4	8
CSM166-4	8
CSM168-2	10
CSM168-4	11
CSM169-2	15
CSM169-4	15
CSM200	8
CSM452	13
CSM1200	7
CSM1224	8
CSM1600	14
CSM1601A	14
CSM1700	13
CSM1800	11
CSM1801	11
CSM2224	8
CSMR40	17
IS49	8
MC600	15
MC800	11

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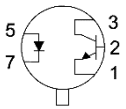
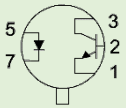
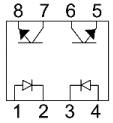
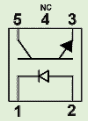
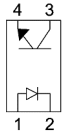
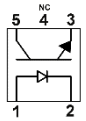
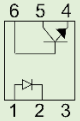
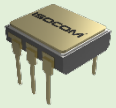
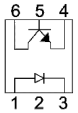
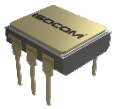
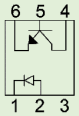
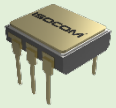
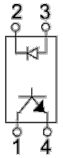
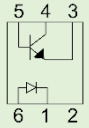
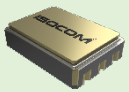
SPACE HERITAGE

APPLICATION	PARTS USED
GLONASS TELECOM SATELLITE	CD501/L2S, CSM165-4/L2S
GLONASS “K” SATELLITE	CD501/L2S
GLONASS “M” SATELLITE	CSM1200/L2S
ALPHA MAGNETIC SPECTROMETER (ISS)	CD501/L2S, CS200/L2S, CSM165-4/L2S
GALILEO TELECOM SATELLITE	CD501/L2S
SWIR SPECTROMETER	CS600/L2S
AEROSPACE DIGITAL COMPUTER (ARGON)	CD501/L2S
E-STAR (EGYPT-SAT) SATELLITE PROGRAM	CD501/L2S
MOON RESOURCE SPACE PROGRAM	CD501/L2S
“SPEECH”	CD501/L2S#30
UNIVERSAL SPACE PLATFORM SPACECRAFT	CD501/L2S, CD501/L2S#30
OBZOR-O	CD501/L2S, CSM165-4/L2S
SPACE SYSTEM IONOZOND	CSM165-4/L2S
ELECTRO-L	CSM165-4/L2S
PANCAM EXOMARS	CS249/L2S
SOLAR PROBE PLUS PROGRAM	CD650/L2S, CD850/L2S
ICON (IONOSPHERIC CONNECTION)	CS5700/L2S
MOMA EXOMARS	CSM100/L2S
MICROSATELLITE PROPULSION SYSTEM	CSM100/L2S
YENISEY A1 (LUCH 4)	IS49/L2S
ENMAP	CS600/L2S, 6N134/L2S
ANGOSAT 1	CD501/L2S

Ceramic Hermetically Sealed Transistor Optocouplers, manufactured to ISO 9001:2008, with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 10mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 10mA) max(V)	BV_{CEO} (I_C = 1mA) min(V)	I_{CEO}(Dark) (V_{CE} = 20V) max(µA)	V_{CE} Sat (I_F = 10mA, I_C = 2mA) max(V)	Package Figure No.
4N22/4N234N24			350	50	1.8	100	100	0.3	Page 19 Fig.3
4N497/4N484N49			350	50	1.8	100	100	0.3	Page 19 Fig.3
CD500/CD501			50	50	1.5	100	100	0.22③	Page 20 Fig.8
CH300			350	15	1.5	30	100 ⑥	0.25 ①	Page 19 Fig.1
CH100/CH101			150	40	1.8	70	100	0.3 ②	Please contact Isocom

Ceramic Hermetically Sealed Transistor Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 10mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 10mA) max(V)	BV_{CEO} (I_C = 1mA) min(V)	I_{CEO}(Dark) (V_{CE} = 20V) max(μA)	V_{CE}(Sat) (I_F = 10mA, I_C = 2mA) max(V)	Package Figure No.
CH301A			350	15	1.5	30	100^{++}	0.25 ①	Page 19 Fig.1
CS200/CS201			100	50	1.8	70	100	0.3 ③	Page 20 Fig.10
CS224			350	50	1.8	100	0.1	0.3 ③	Page 20 Fig.10
CS249			200	50	1.8	70	100	0.22 ②	Page 20 Fig.10
CSM100/CSM101			350	40	1.6	70	100	0.22 ②	Page 19 Fig.4
CSM1200			350	50	1.8	100	100	0.3 ②	Page 20 Fig.6

① I_F = 2mA, I_C = 0.2mA
② I_F = 20mA, I_C = 10mA
③ I_F = 10mA, I_C = 2.5mA
④ I_F = 2mA, I_C = 1mA
⑤ I_F = 1mA
⑥ V_{CE} = 10V

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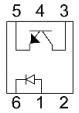
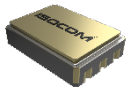
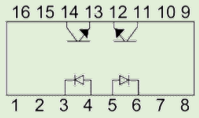
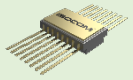
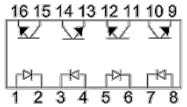
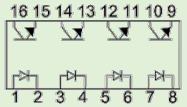
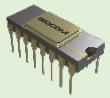
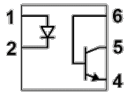
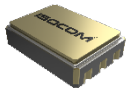
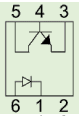
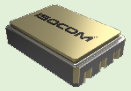
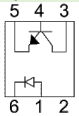
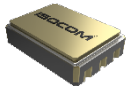
Ceramic Hermetically Sealed Transistor Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 10mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 10mA) max(V)	BV_{CEO} (I_C = 1mA) min(V)	I_{CEO}(Dark) (V_{CE} = 20V) max(µA)	V_{CE}(Sat) (I_F = 10mA, I_C = 2mA) max (V)	Package Figure No.
CSM1224			350	50	1.8	100	0.1	0.3 ②	Page 20 Fig.6
CSM165-2			350	50	1.6	100	0.1	0.22 ②	Page 20 Fig.7
CSM165-4			350	50	1.6	100	0.1	0.22 ②	Page 20 Fig.7
CSM166-2/CSM166-4			100⁺	10	1.8	50	0.1	0.3 ④	Page 20 Fig.8
CSM200			350	50	1.4	100	0.1	0.22 ②	Page 20 Fig.6
CSM2224			350	50	1.8	100	0.1	0.3 ②	Page 20 Fig.6
IS49			350	50	1.8	70	100	0.22 ②	Page 20 Fig.6

① I_F = 2mA, I_C = 0.2mA
② I_F = 20mA, I_C = 10mA
③ I_F = 10mA, I_C = 2.5mA
④ I_F = 2mA, I_C = 1mA
⑤ I_F = 1mA
⑥ V_{CE} = 10V

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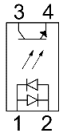
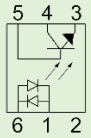
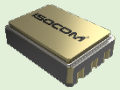
Ceramic Hermetically Sealed AC Transistor Optocoupler, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*								
Part No.	**Functional Diagram**	**Package Details**	**CTR (I_F =10mA) min(%)**	**BV_{CEO} (I_C = 1mA) min(V)**	**V_F (I_F = 10mA) min(V)**	**Transition Times (R_L = 100Ω)**		**Package Figure No.**
						t_r max(µS)	**t_f max(µS)**	
CSM120			200	40	1.8	20	20	Page 19 Fig.4
CSM121			200	40	1.8	20	20	Page 20 Fig.6

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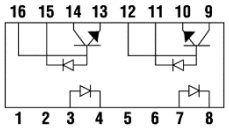
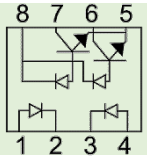
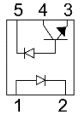
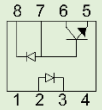
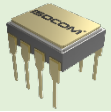
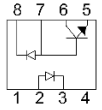
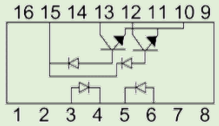
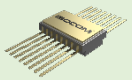
Ceramic Hermetically Sealed High Speed Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 16mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 16mA) max(V)	BW (R_L = 100Ω) typ(MHz)	Propagation Delay Times (R_L = 1.9KΩ, V_{CC} = 5V, I_F = 16mA)		Package Figure No.
							t_{PHL} max (µS)	t_{PLH} max (µS)	
4N55			9	20	1.7	3	2.0	6.0	Page 20 Fig.8
CD850			typ 17	20	1.7	3	0.8	0.8	Page 20 Fig.9
CH380			typ 17	20	1.7	3	0.8	0.8	Page 19 Fig.2
CS800			9	20	typ 1.45 ⑧	2	typ 0.5 ⑦	typ 0.5 ⑦	Page 20 Fig.9
CS801			15	20	typ 1.45 ⑧	2	typ 0.5 ⑦	typ 0.5 ⑦	Page 20 Fig.9
CSM168-2			9	20	1.7	3	typ 0.1	typ 0.3	Page 20 Fig.7

⑦ R_L = 8.2kΩ
⑧ I_F = 20mA

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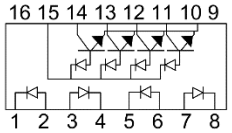
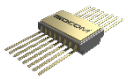
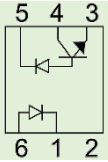
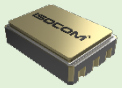
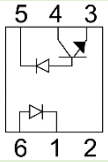
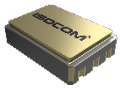
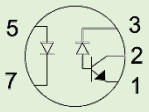
Ceramic Hermetically Sealed High Speed Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*									
Part No.	**Functional Diagram**	**Package Details**	**CTR (I_F = 16mA) min(%)**	**Continuous I_F max(mA)**	**V_F (I_F = 16mA) max(V)**	**BW (R_L = 100Ω) typ(MHz)**	**Propagation Delay Times (R_L = 1.9KΩ, V_{CC} = 5V, I_F = 16mA)**		**Package Figure No.**
							t_{PHL} max (µS)	**t_{PLH} max (µS)**	
CSM168-4			9	20	1.7	3	typ 0.1	typ 0.3	Page 20 Fig.7
CSM1800/CSM1801			typ 17	20	1.7	2	0.8	0.8	Page 20 Fig.6
CSM1801			typ 17	20	1.7	2	0.8	0.8	Page 20 Fig.6
MC800			9	20	1.7	2	0.8	0.8	Page 20 Fig.7

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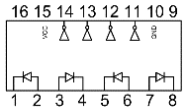
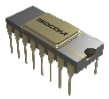
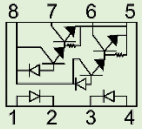
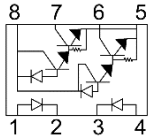
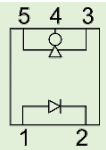
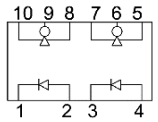
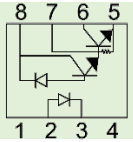
Ceramic Hermetically Sealed High Gain Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*									
Part No.	**Functional Diagram**	**Package Details**	**CTR (I_F = 1.6mA) min(%)**	**Continuous I_F max(mA)**	**V_F (I_F = 1.6mA) max(V)**	**Data Rate typ(Kb/s)**	**Propagation Delay Times, (R_L = 680Ω, V_{CC} = 5V, I_F = 5mA)**		**Package Figure No.**
							t_{PHL} max(µS)	**t_{PLH} max(µS)**	
6N140A			200	10	1.7	100	12	60	Page 20 Fig.8
CD5731			200	10	1.7	100	12	60	Page 20 Fig.9
CD750			200	10	1.7	100	12	60	Page 20 Fig.9
CH370			200	8	1.9	100	12	60	Page 19 Fig.2
CH390			200	10	1.9	100	12	60	Please contact ISOCOM
CS700			200	10	1.7	100	10	60	Page 20 Fig.9

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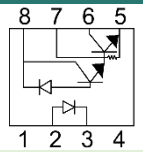
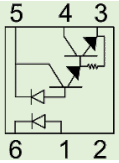
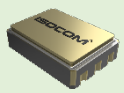
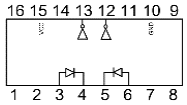
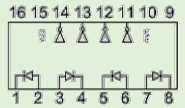
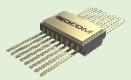
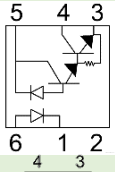
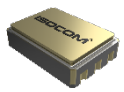
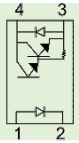
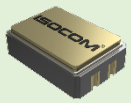
Ceramic Hermetically Sealed High Gain Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 1.6mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 1.6mA) max(V)	Data Rate typ(Kb/s)	Propagation Delay Times, (R_L = 680Ω, V_{CC} = 5V, I_F = 5mA)		Package Figure No.
							t_{PHL} max(µS)	t_{PLH} max(µS)	
CS5700			300	10	1.7	100	10	60	Page 20 Fig.9
CSM141A			300	10	1.7	700	5	20	Page 20 Fig.6
CSM160-2/ CSM161-2/CSM162-2			200	10	1.7	100	5	60	Page 20 Fig.7
CSM160-4/ CSM161-4/CSM162-4			200	10	1.7	100	5	60	Page 20 Fig.7
CSM1700			200	10	1.7	700	12	60	Page 20 Fig.6
CSM452			1000	10 ⑨	1.4	100	12	60	Page 19 Fig.4

⑨ I_F = 10mA

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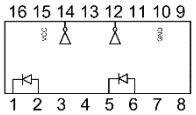
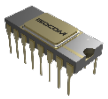
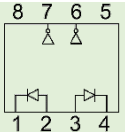
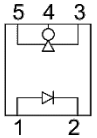
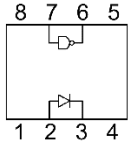
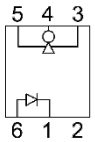
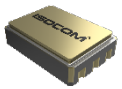
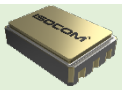
Ceramic Hermetically Sealed High Gain Photon Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	CTR (I_F = 10mA) min(%)	Continuous I_F max(mA)	V_F (I_F = 20mA) max(V)	Data Rate typ(Kb/s)	Propagation Delay Times (R_L= 510Ω, C_L= 15pF, V_{CC} = 5V, I_F = 13mA)		Package Figure No.
							t_{PHL} max(ns)	t_{PLH} max(nS)	
6N134			100	20	1.9	10	90	90	Page 20 Fig.8
CD650/CD651			100 ⓪	20	1.9	10	100	90	Page 20 Fig.9
CH350			100	15	1.9	10	200	200	Page 19 Fig.2
CS600			100 ⓪	20	1.9	10	75 ◘	75 ◘	Page 20 Fig.9
CSM1600			100	20	1.9	10	300 ⑩	1400 ⑩	Page 20 Fig.6
CSM1601A			100	20	1.9	10	300 ⑩	1400 ⑩	Page 20 Fig.6

⑩ R_L = 350Ω, V_{CC} = 5V, I_F = 7.5mA, CL= 15pF
◘ R_L = 350Ω, V_{CC} = 5V, I_F = 13mA, CL= 15pF
⓪ I_F = 5mA⑨

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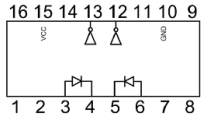
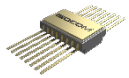
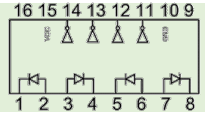
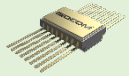
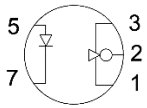
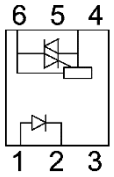
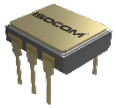
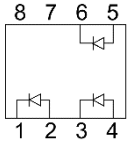
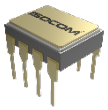
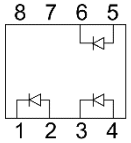
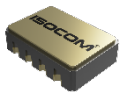
Ceramic Hermetically Sealed High Gain Photon Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*									
Part No.	**Functional Diagram**	**Package Details**	**CTR (I_F = 10mA) min(%)**	**Continuous I_F max(mA)**	**V_F (I_F = 20mA) max(V)**	**Data Rate typ(Kb/s)**	**Propagation Delay Times (R_L= 510Ω, C_L= 15pF, V_{CC} = 5V, I_F = 13mA)**		**Package Figure No.**
							t_{PHL} max(ns)	**t_{PLH} max(nS)**	
CSM169-2			100	20	1.9	10	200	200	Page 20 Fig.7
CSM169-4			100	20	1.9	10	200	200	Page 20 Fig.7
MC600			100	20	1.9	10	300	300	Page 19 Fig.3

Ceramic Hermetically Sealed Zero Crossing Triac Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C

Part No.	Functional Diagram	Package Details	V_{DRM} (I_{DRM} = 100nA) min(V)	Continuous I_F max(mA)	V_F (I_F = 30mA) max(V)	I_{FT} (Main Terminal Voltage = 3V) max(mA)	dv/dt (C) typ(V/µs)	Package Figure No.
CS3031/ 32/33			250	60	1.8	15 / 10 / 5	2000	Page 20 Fig.10
CS3041/ 42/43			400	60	1.7	15 / 10 / 5	2000	
CS3061/ 62/63			600	60	1.5	15 / 10 / 5	1500	
CS3081/ 82/83			800	60	1.5	15 / 10 / 5	1500	

Ceramic Hermetically Sealed Linear Optocouplers, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	BV_R (I_R = 100µA) typ(V)	V_F (I_F = 10mA) max(V)	Transfer Gain (I_F = 10mA, V_R = 15V) Typ()	Transition times (R_L = 50Ω, I_F = 10mA) max(µS)		Package Figure No.
						t_r	t_f	
CSL400D			200	1.8	1.0	2	2	Page 20 Fig.9
CSL400L			200	1.8	1.0	2	2	Page 19 Fig.5

Dual channel versions also available. Please contact us for more information.

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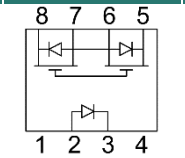
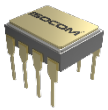
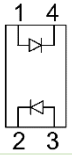
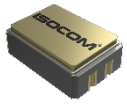
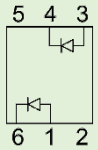
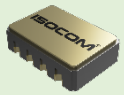
Ceramic Hermetically Sealed MOSFET Optocoupler, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C

Part No.	Functional Diagram	Package Details	I_F max(mA)	R(ON) (I_F = 10mA, I_O = 500mA, $t_p \leq 30$ms) A typ(Ω)	R(ON) B typ(Ω)	V_F (I_F = 10mA) max(V)	I_O(OFF) (V_F = 0.6V, V_O = 90V) max(µA)	Turn On/Off times (I_F = 10mA, V_{DD} = 28V, I_O = 800mA) t_{ON} max(ms)	Turn On/Off times t_{OFF} max(ms)	Package Figure No.
CSMR40			20	0.8	0.2	1.7	10	6.0	0.25	Page 20 Fig.9

Ceramic Hermetically Sealed Photodiode Optocoupler, manufactured to ISO 9001:2008 with an operating temperature range from -55°C to +125°C *(RADIATION TESTED)*

Part No.	Functional Diagram	Package Details	I_D (V_R = 5v, R_L = 1MΩ) typ(µA)	BV_R (I_R = 1mA) min(V)	Transition Times (R_L = 3.3KΩ, I_F 10mA) t_r typ(nS)	Transition Times t_f typ(nS)	CTR (I_F = 10mA, V_{OUT} = 5) typ(%)	Package Figure No.
CSM150			100	200	200	200	1.56	Page 19 Fig.4
CSM151			100	200	200	200	1.56	Page 19 Fig.5

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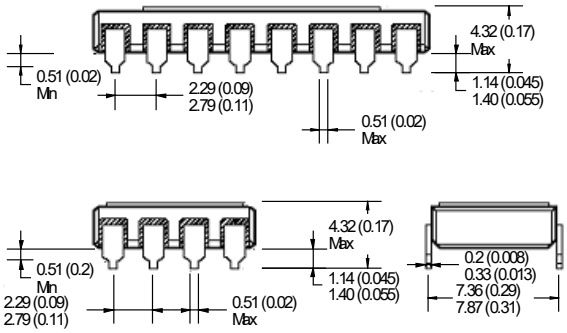
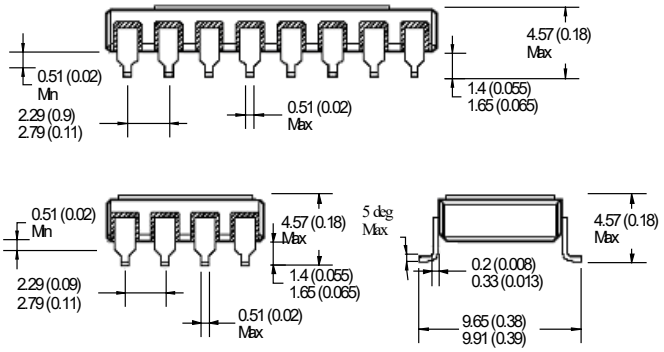
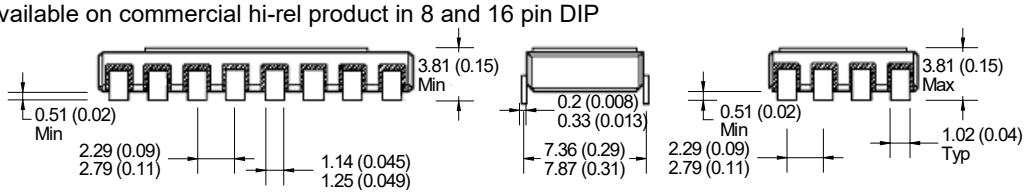
DIP PACKAGE OPTIONS

Option	Description
10	Surface mountable hermetic optocoupler with leads trimmed for butt joint assembly. This option is available on commercial hi-rel product in 8 and 16 pin DIP  *Fig. 1 8 and 16 pin DIP trimmed for butt joint assembly*
20	Solder Dip Option
30	Surface mountable hermetic optocoupler with leads cut and bent for gull wing assembly. This option is available on commercial and hi-rel product in 8 and 16 pin DIP.  *Fig. 2 8 and 16 pin DIP with leads cut and bent for gull wing assembly*
60	Surface mountable hermetic optocoupler with leads trimmed for butt joint assembly. This option is available on commercial hi-rel product in 8 and 16 pin DIP  *Fig. 3 8 and 16 pin DIP with leads trimmed for butt joint assembly*

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PACKAGE DIMENSIONS

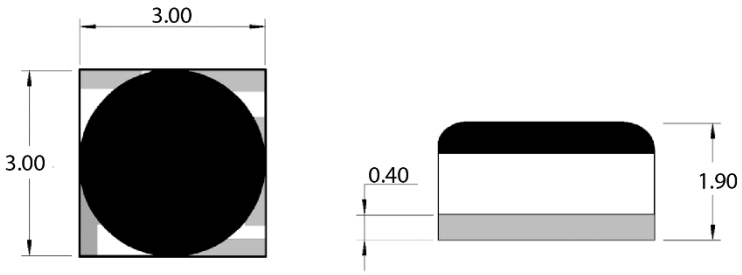

Figure 1: 4/5 Pin Hybrid

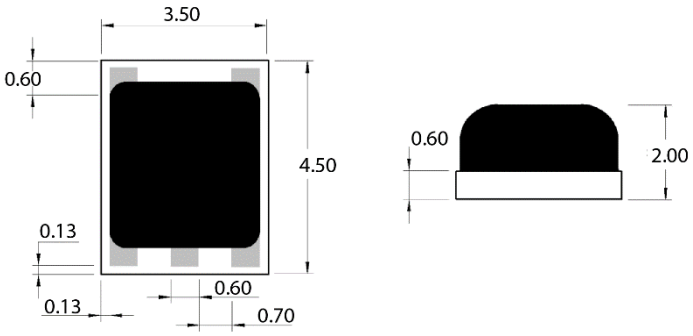

Figure 2: 5 Pin Hybrid

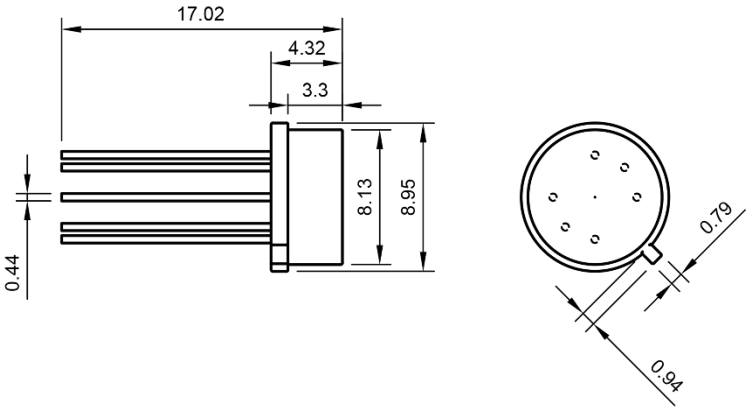

Figure 3: 6 Metal Can

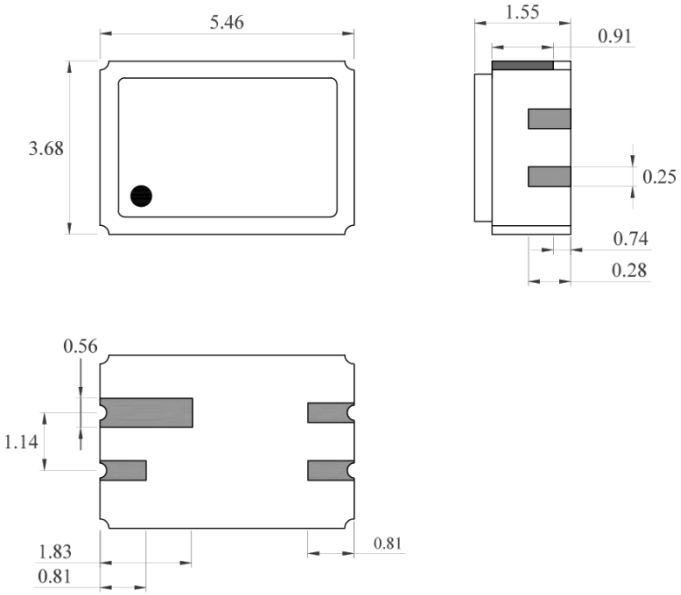

Figure 4: 4 Pin LCC

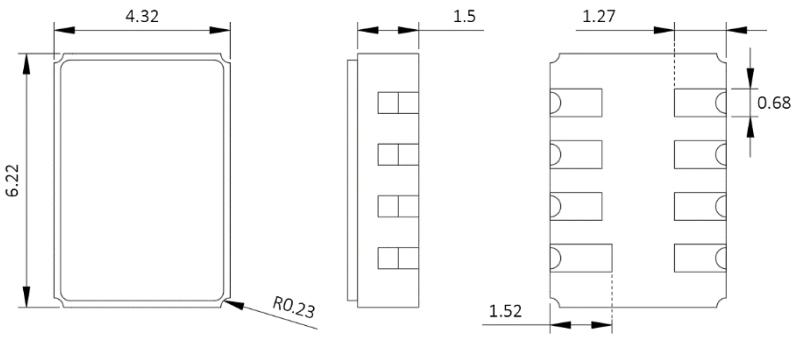

Figure 5: 8 Pin LCC

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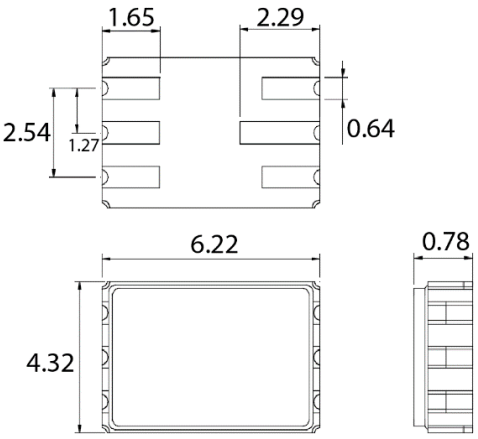

Figure 6: 6 Pin LCC

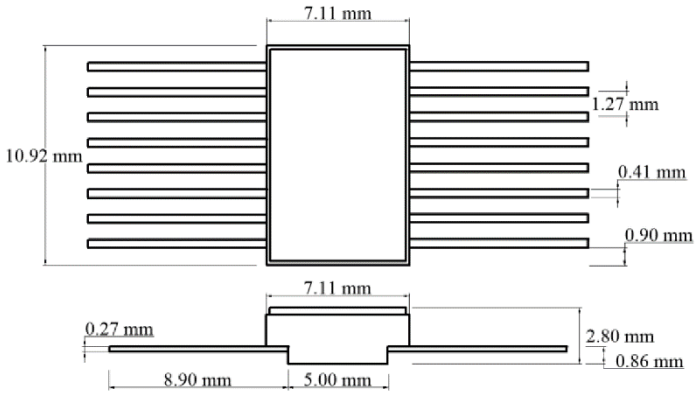

Figure 7: 16 Pin Flat Pack

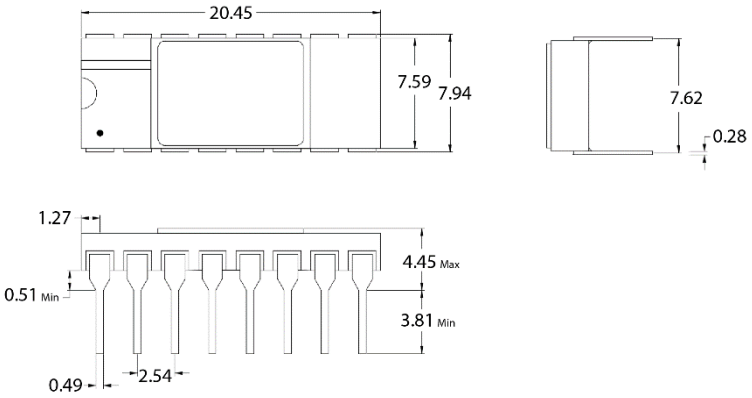

Figure 8: 16 Pin DIP

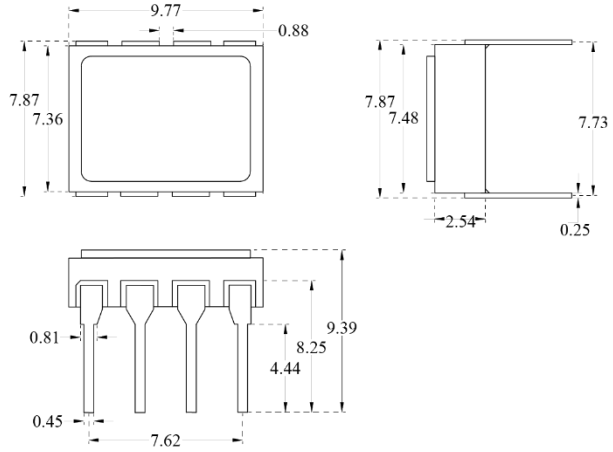

Figure 9: 8 Pin DIP

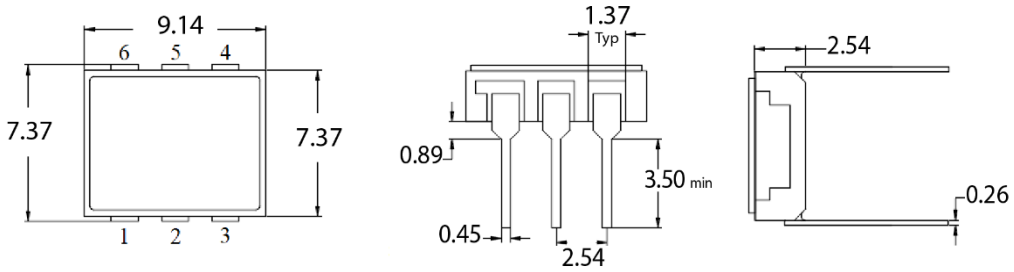

Figure 10: 6 Pin DIP

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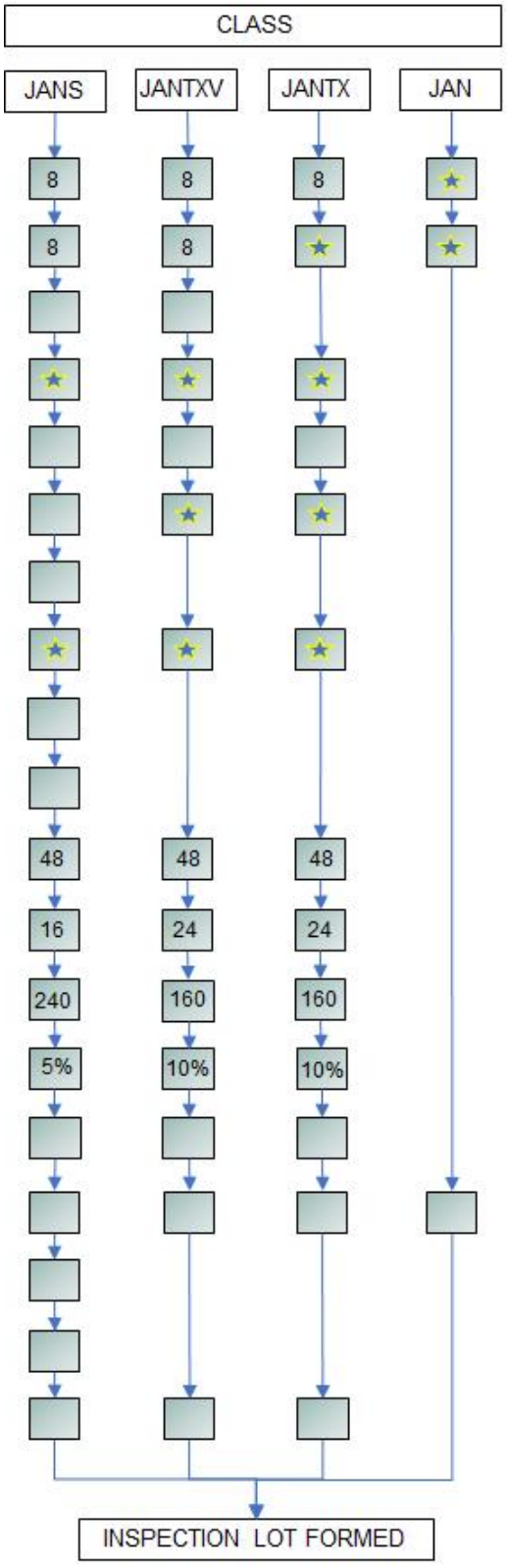
SCREENING FLOW MIL-PRF-19500



WIRE BOND STRENGTH TEST (DESRUCTIVE & NON-DESTRUCTIVE)

DIE SHEAR TEST

INTERNAL VISUAL INSPECTION (PRE-CAP)

STABILIZATION BAKE 24 HRS @ 150°C

TEMPERATURE CYCLE 20 CYCLES @ -65°C to 150°C

ACCELERATION 5000g Y1

PIND TEST CONDITION A

HERMETIC SEAL TEST (FINE & GROSS)

SERIALISATION

DC TEST PRE-BURN-IN @ 25°C, 125°C, -55°C AND SWITCHING

HIGH TEMPERATURE GATE BIAS @ 125°C

DC TEST HTGB @ 25°C

HIGH TEMPERATURE REVERSE BIAS @ 125°C

PERCENTAGE DEFECTIVE ALLOWED

DC TEST POST-BURN-IN @ 25°C, 125°C, -55°C AND SWITCHING

HERMETIC SEAL TEST (FINE & GROSS)

RADIOGRAPHIC INSPECTION

EXTERNAL VISUAL INSPECTION

ISOLATION @ 25°C

★ = OPTIONAL

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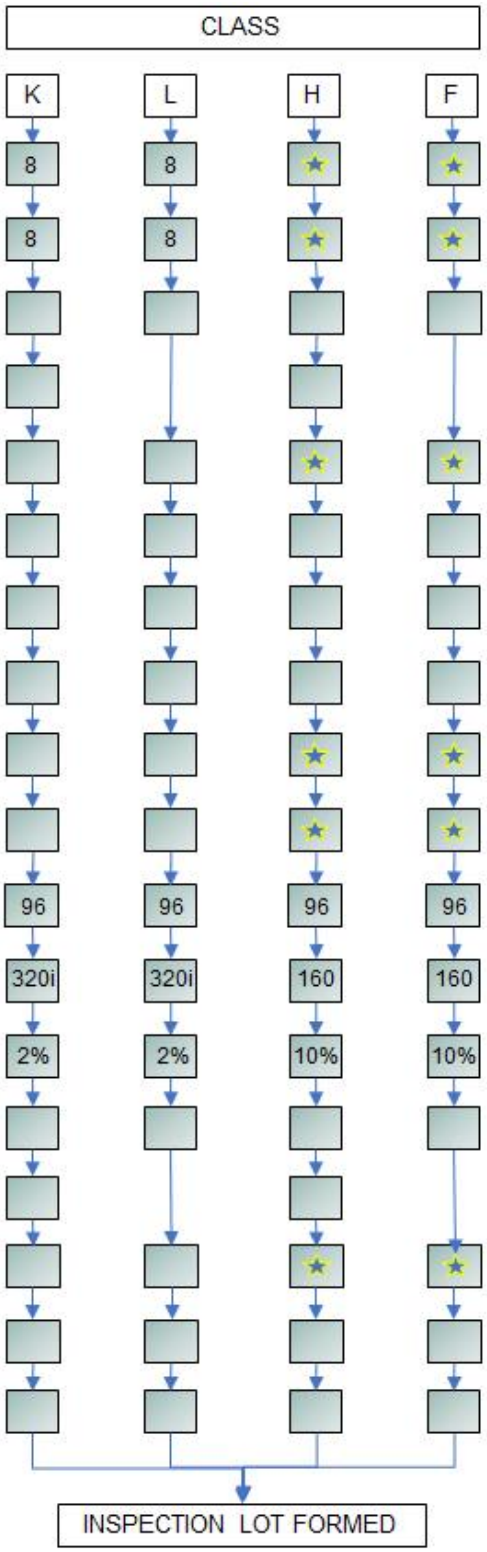
SCREENING FLOW MIL-PRF-38534



WIRE BOND STRENGTH TEST (DESRUCTIVE & NON-DESTRUCTIVE 100%)

DIE SHEAR TEST

PRE-CAP VISUAL INSPECTION 100%

HERMETIC SEAL TEST (FINE & GROSS)

SERIALISATION

ISOLATION TEST @ 25°C

TEMPERATURE CYCLE 10 CYCLES @ -65 °C to 150°C

ACCELERATION 5000g Y1

PIND TEST

DC TEST PRE-BURN-IN @ 25°C, 125°C, -55°C AND SWITCHING

HTRB @125 °C

BURN-IN @125°C

PERCENTAGE DEFECTIVE ALLOWED – CLASS K/L BASED ON SECOND HALF OF B.I ONLY

DC TEST POST-BURN-IN @ 25°C, 125°C, -55°C AND SWITCHING

HERMETIC SEAL TEST (FINE & GROSS)

RADIOGRAPHIC TESTS

EXTERNAL VISUAL INSPECTION 100%

Q. A GATE RELEASE

★ = OPTIONAL

i = INTERIM, E.G. 2 x 160 HOUR BURN-IN

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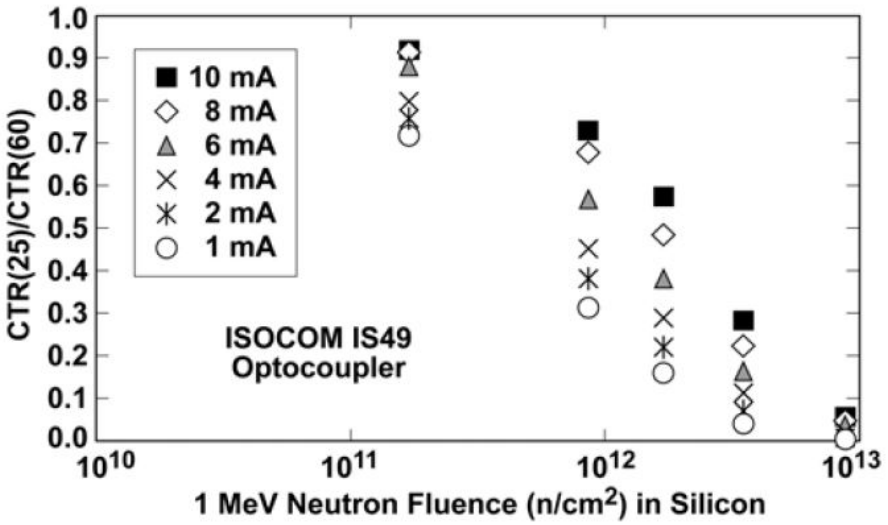
ISOCOM LIMITED RADIATION SUMMARY ON OPTOCOUPLERS

TOTAL IONIZATION DOSE TESTED	Up to 1 Mrad(si)
DISPLACEMENT DAMAGE TESTED	1 MeV X 10^{12}
NEUTRON TESTED	Transistors – 1.00E + 11 High Speed – 3.00E + 12 High Gain – 3.00E +12 High Gain Photon – 1.00E + 13

Normalized CTR versus the radiation level for the IS49 Transistor optocoupler



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ISOCOM Limited
2 Fern Court
Bracken Hill Business Park
Peterlee
County Durham
SR8 2RR
United Kingdom

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E: sales@isocom.uk.com

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