

DROP IN ISOLATORS AND CIRCULATORS

GENERAL INFORMATION

MCE DML Microwave Ltd has taken advantage of its many years of experience, and are pleased to present their new custom design platform range of one inch Drop In Isolators and Circulators.

Accommodating the major cellular applications, these devices offer a *guaranteed* specification. This enables MCE DML to produce a consistently superior product with excellent unit to unit repeatability and consistency.

ADVANTAGES

- Superior performance over industry standards
- Stable over wide temperature extremes
- Precision test fixturing available
- High volume manufacturing facilities in 3 countries
- Excellent affordability
- Full qualification facilities on premises
- Integration with other DML products available

ISOLATOR SPECIFICATIONS

Frequency MHz	869-894	925-960	1805-1880	1930-1990	2080-2200
Isolation	25 dB min	25 dB min	25 dB min	25 dB min	25 dB min
Insertion Loss	0.25 dB max	0.25 dB max	0.25 dB max	0.25 dB max	0.25 dB max
Return loss	25 dB min	25 dB min	25 dB min	25 dB min	25 dB min
Power fwd	100W max	100W max	100W max	100W max	100W max
Power rev	60W max *	60W max *	60W max *	60W max *	60W max *
IM3 (2x60w Fwd CW)	-56 dBc max	-56 dBc max	-70 dBc max	-70 dBc max	-70 dBc max
IM3 (+48dBm fwd, +28dBm rev)	-95 dBc max	-95 dBc max	-100 dBc max	-100 dBc max	-100 dBc max
Operating Temperature	-10° C to +85° C	-10° C to +85° C	-10° C to +85° C	-10° C to +85° C	-10° C to +85° C
Extended Temp without failure	-40° C to +110° C	-40° C to +110° C	-40° C to +110° C	-40° C to +110° C	-40° C to +110° C

* WITH ADEQUATE HEATSINKING



ISOLATORS

Model No.	Frequency Range (MHz)
DS88017	869 - 894
DS94006	925 - 960
DS18005	1805 - 1880
DS19007	1930 - 1990
DS21008	2080 - 2200

CIRCULATORS

Model No.	Frequency Range (MHz)
DC88009	869 - 894
DC94010	925 - 960
DC18011	1805 - 1880
DC19012	1930 - 1990
DC21013	2080 - 2200

DATA SHEET MD2

Edition 1



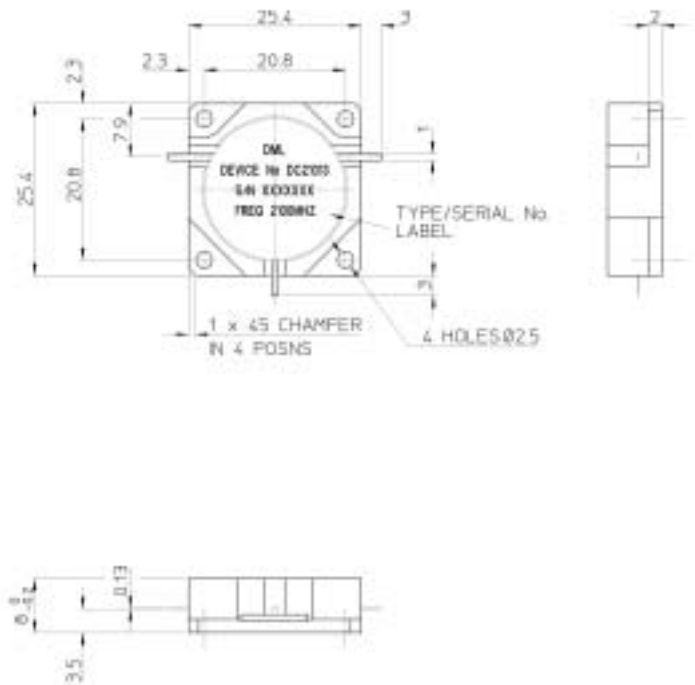
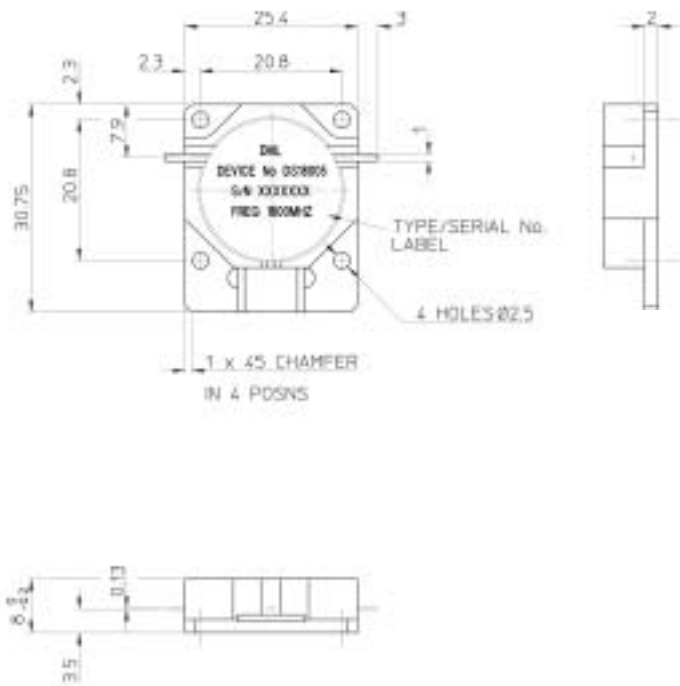
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DML MICROWAVE

CIRCULATOR SPECIFICATIONS

Frequency MHz	869-894	925-960	1805-1880	1930-1990	2080-2200
Isolation	25 dB min	25 dB min	25 dB min	25 dB min	25 dB min
Insertion Loss	0.25 dB max	0.25 dB max	0.25 dB max	0.25 dB max	0.25 dB max
Return loss	25 dB min	25 dB min	25 dB min	25 dB min	25 dB min
Power fwd/rev	100W max	100W max	100W max	100W max	100W max
IM3 (2x60W Fwd CW)	-56 dBc max	-56 dBc max	-70 dBc max	-70 dBc max	-70 dBc max
IM3 (+48dBm fwd, +28dBm rev)	-95 dBc max	-95 dBc max	-100 dBc max	-100 dBc max	-100 dBc max
Operating Temperature	-10 ⁰ C to +85 ⁰ C	-10 ⁰ C to +85 ⁰ C	-10 ⁰ C to +85 ⁰ C	-10 ⁰ C to +85 ⁰ C	-10 ⁰ C to +85 ⁰ C
Extended Temp without failure	-40 ⁰ C to +110 ⁰ C	-40 ⁰ C to +110 ⁰ C	-40 ⁰ C to +110 ⁰ C	-40 ⁰ C to +110 ⁰ C	-40 ⁰ C to +110 ⁰ C



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