

Frequency Mixer

MCA-45MH

Level 13 (LO Power +13 dBm) 2700 to 4500 MHz

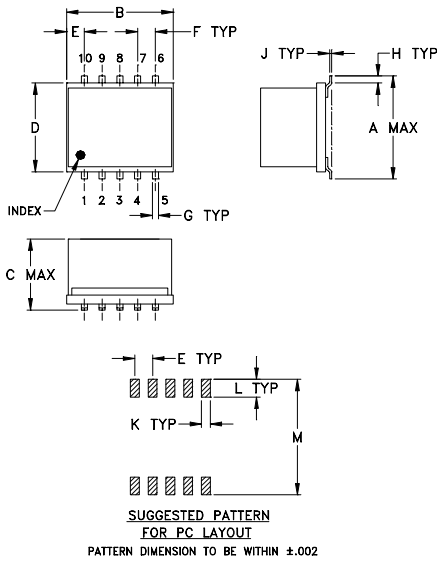
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	200mW
IF Current	40mA

Pin Connections

LO	10
RF	5
IF	3
GROUND	1,2,4,6,7,8,9

Outline Drawing



Outline Dimensions (inch/mm)

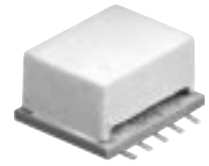
A	B	C	D	E	F	G	H	J
.300	.30	.200	.250	.050	.050	.017	.020	.006
7.62	7.62	5.08	6.35	1.27	1.27	0.43	0.51	0.15
K	L	M	wt.					
.025	.050	.325	grams					
0.64	1.27	8.26	.50					

Features

- low conversion loss, 7.0 dB typ.
- excellent L-R isolation, 38 dB typ.;
- excellent L-I isolation, 32 dB typ.
- useable over 1000-5000 MHz

Applications

- satellite communications
- line of sight links



CASE STYLE: DM842
PRICE: \$ 7.95ea. QTY.: (10-49)

Electrical Specifications (T_{AMB}=-40°C to 85°C)

FREQUENCY (MHz)	CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		IP3@ center band Typ. (dBm)	E FACTOR			
	LO/RF f _L -f _U	IF	\bar{x}	σ	Max.	Typ.			Min.		
2700-4500	10-1500		7.0	0.2	8.9	38	24	32	20	19	0.6

1dB Compr.: +9 dBm typ.
E= ([IP3(dBm)-LO Power(dBm)]/10)

Patent pending

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