

SMA3109

ELECTRICAL CHARACTERISTICS (Ta = 25°C, V_{CC} = 3 V, Z_S = Z_L = 50 Ω)

Symbol	Parameter	Conditions	Ratings			Unit
			Min	Typ	Max	
I _{CC}	Circuit Current		11.5	16.0	20.5	mA
G _p	Power Gain	f = 1 GHz	21.0	23.0	26.0	dB
		f = 2.2 GHz	22.0	24.0	27.0	
ISL	Isolation	f = 1 GHz	27.0	31.5	–	dB
		f = 2.2 GHz	27.0	31.5	–	
RLin	Input Return Loss	f = 1 GHz	16.0	20.5	–	dB
		f = 2.2 GHz	10.0	15.0	–	
RLout	Output Return Loss	f = 1 GHz				

SMA3109

S Parameter

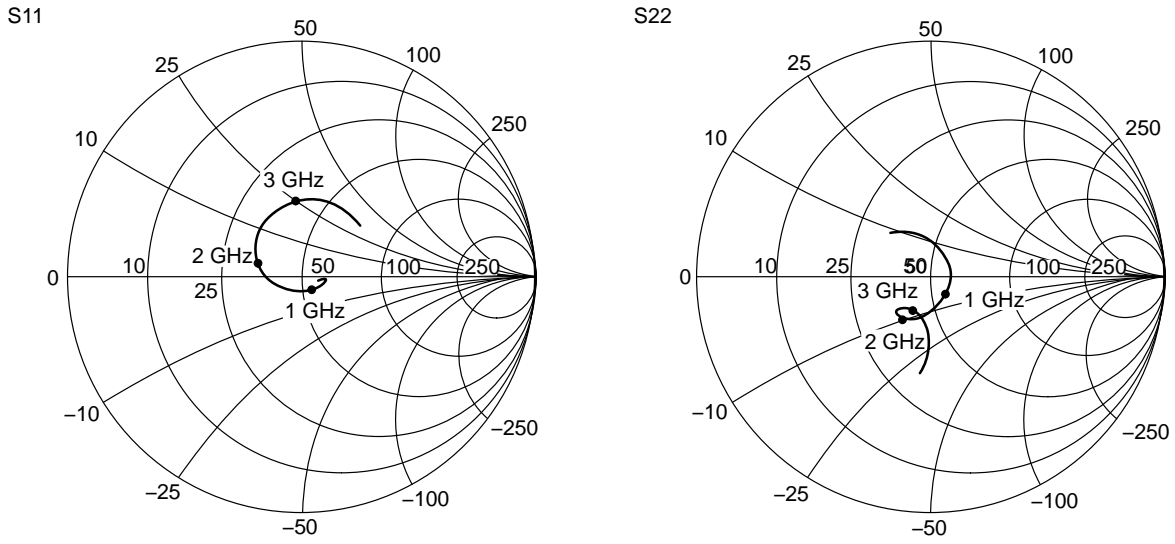
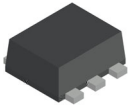
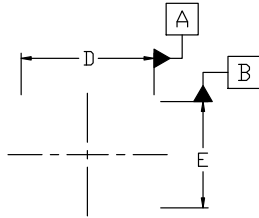


Figure 10. S Parameter



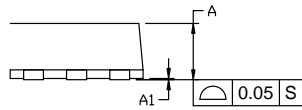
SC-88FL / MCPH6
CASE 419AS
ISSUE A

DATE 28 SEP 2022

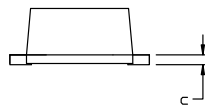


$\varnothing 0.1 \text{ (M) A}$

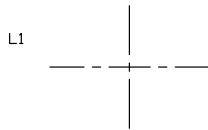
TOP VIEW



SIDE VIEW



FRONT VIEW



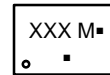
BOTTOM VIEW

NOTES:

1. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND THE BAR PROTRUSIONS.

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.80	0.85	0.90
A1	0.00	---	0.02
b	0.25	0.30	0.40
c	0.12	0.15	0.25
D	1.94	2.00	2.06
E	1.54	1.60	1.66
He	2.05	2.10	2.15
L	0.19	0.25	0.31
L1	0.00	0.07	0.12

GENERIC MARKING DIAGRAM*



- XXX = Specific Device Code
- M = Date Code
- = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

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