



SYMBOL	PQ44			PQ/HQ160			PQ/HQ208			PQ/HQ240		
	MILLIMETERS			MILLIMETERS			MILLIMETERS			MILLIMETERS		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
A	$\approx$	2.15	2.35	$\approx$	3.70	4.10	$\approx$	3.70	4.10	$\approx$	3.78	4.10
A <sub>1</sub>	$\approx$	0.05	0.25	0.25	0.33	0.50	0.25	0.33	0.50	0.25	0.38	0.50
A <sub>2</sub>	$\approx$	1.95	2.00	3.20	3.40	3.60	3.20	3.40	3.60	3.20	3.40	3.60
D/E	13.20 BSC			31.20 BSC			30.60 BSC			34.60 BSC		
D <sub>1</sub> /E <sub>1</sub>	10.00 BSC			28.00 BSC			28.00 BSC			32.00 BSC		
FL	1.60 REF.			1.60 REF.			1.30 REF.			1.30 REF.		
L	0.73	0.88	1.03	0.73	0.88	1.03	0.50	0.60	0.75	0.50	0.60	0.75
e	0.80 BSC.			0.65 BSC.			0.50 BSC.			0.50 BSC.		
b	0.30	$\approx$	0.45	0.22	$\approx$	0.40	0.17	0.22	0.27	0.17	$\approx$	0.27
c	0.13	$\approx$	0.23	0.13	$\approx$	0.23	0.09	$\approx$	0.20	0.09	$\approx$	0.20
aaa	$\approx$	$\approx$	0.25	$\approx$	$\approx$	0.25	$\approx$	$\approx$	0.25	$\approx$	$\approx$	0.25
bbb	$\approx$	$\approx$	0.20	$\approx$	$\approx$	0.20	$\approx$	$\approx$	0.20	$\approx$	$\approx$	0.20
ccc	$\approx$	$\approx$	0.10	$\approx$	$\approx$	0.10	$\approx$	$\approx$	0.08	$\approx$	$\approx$	0.08
ddd	$\approx$	$\approx$	0.20	$\approx$	$\approx$	0.13	$\approx$	$\approx$	0.08	$\approx$	$\approx$	0.08
N	44			160			208			240		
REF.	JEDEC MS-022-AB			JEDEC MS-022-DD1			JEDEC MS-029-FA-1			JEDEC MS-029-GA		

- NOTES:
- ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1994.
  - DIMENSIONS D<sub>1</sub> AND E<sub>1</sub> DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION SHALL NOT EXCEED 0.25mm PER SIDE.
  - PACKAGE TOP DIMENSIONS MAY BE SMALLER THAN THE BOTTOM DIMENSIONS BY 0.20mm.
  - THE SAME PACKAGE DIMENSIONS APPLY FOR THERMALLY ENHANCED PRODUCTS. HEAT SINK IS ADDED. THE PACKAGE CODE IS "HQ".
  - HEAT SINK DIMENSIONS: HQ160/HQ208=21mm SQ. REF.; HQ240=24mm SQ. REF.
  - MARK ORIENTATION WITH RESPECT TO PIN-1 I.D. IF 2 OR MORE CIRCLES EXIST ON TOP OF THE PACKAGE, USE THE SMALLEST CIRCLE AS PIN-1 I.D.