

DATA SHEET

Package outlines RF & Microwave Power Transistors and RF Power Modules

1998 Feb 17

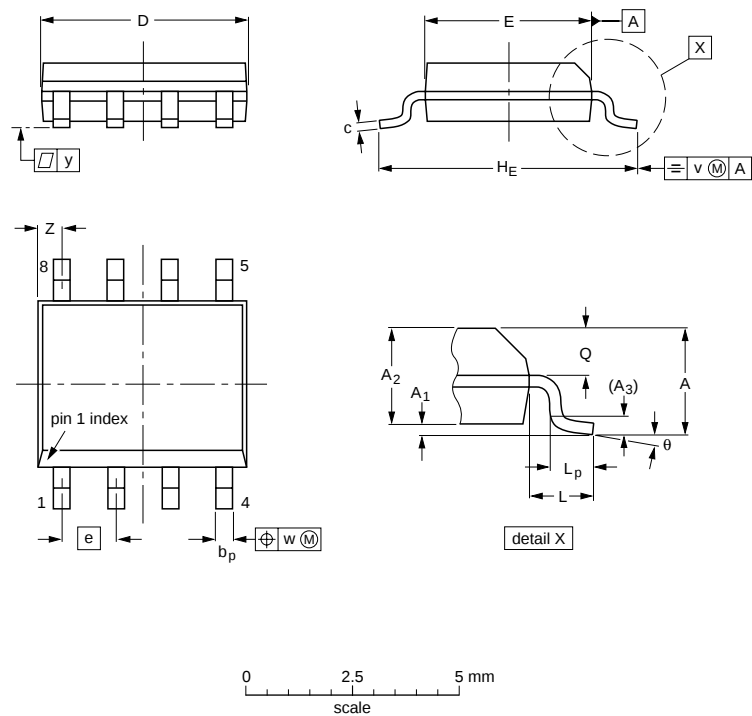
File under Discrete Semiconductors, SC19a

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

SO8: plastic small outline package; 8 leads; body width 3.9 mm

SOT96-1



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽²⁾	e	H _E	L	L _p	Q	v	w	y	z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	5.0 4.8	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8° 0°
inches	0.069	0.010 0.004	0.057 0.049	0.01	0.019 0.014	0.0100 0.0075	0.20 0.19	0.16 0.15	0.050	0.244 0.228	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	

Notes

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

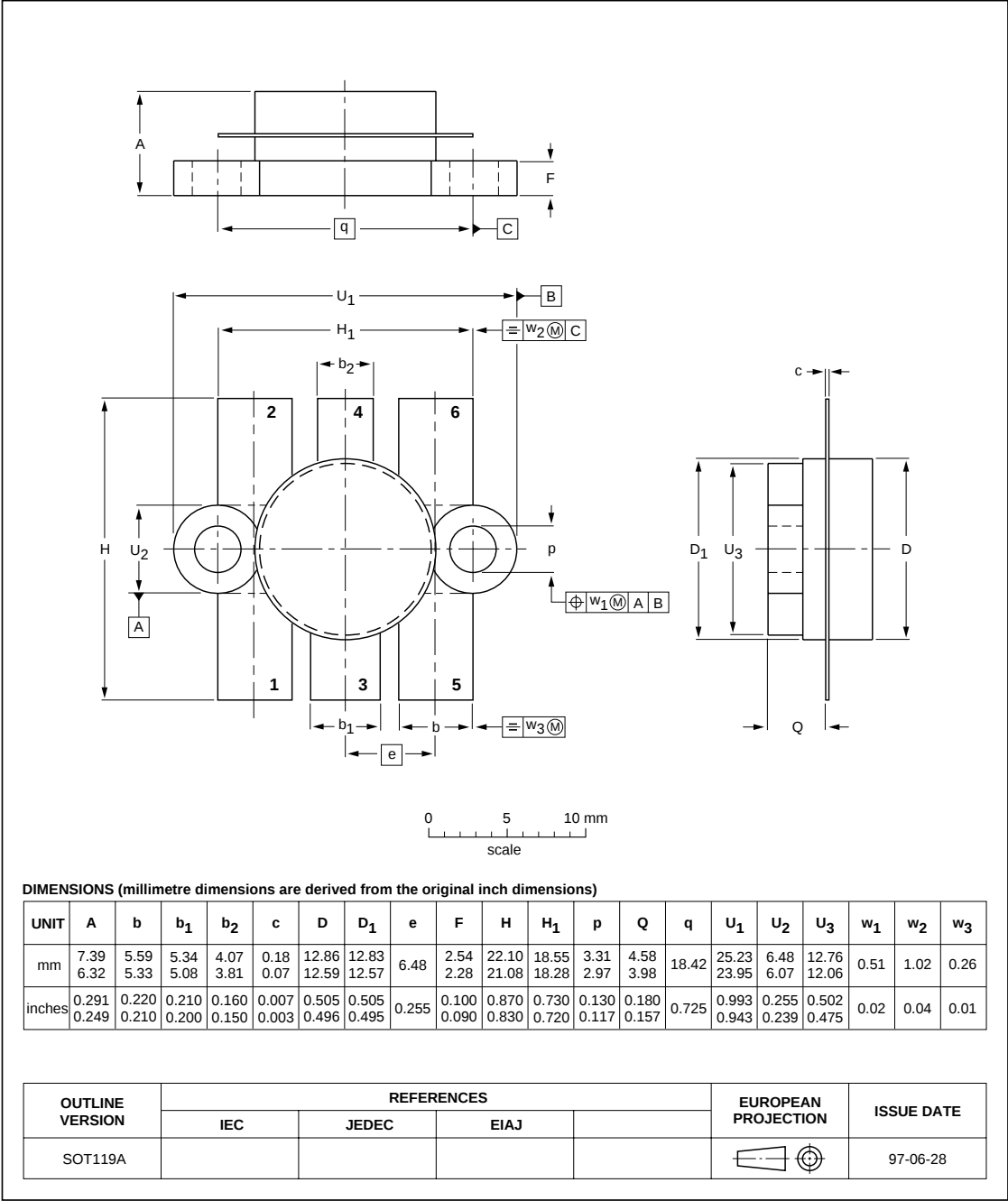
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT96-1	076E03S	MS-012AA				95-02-04 97-05-22

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

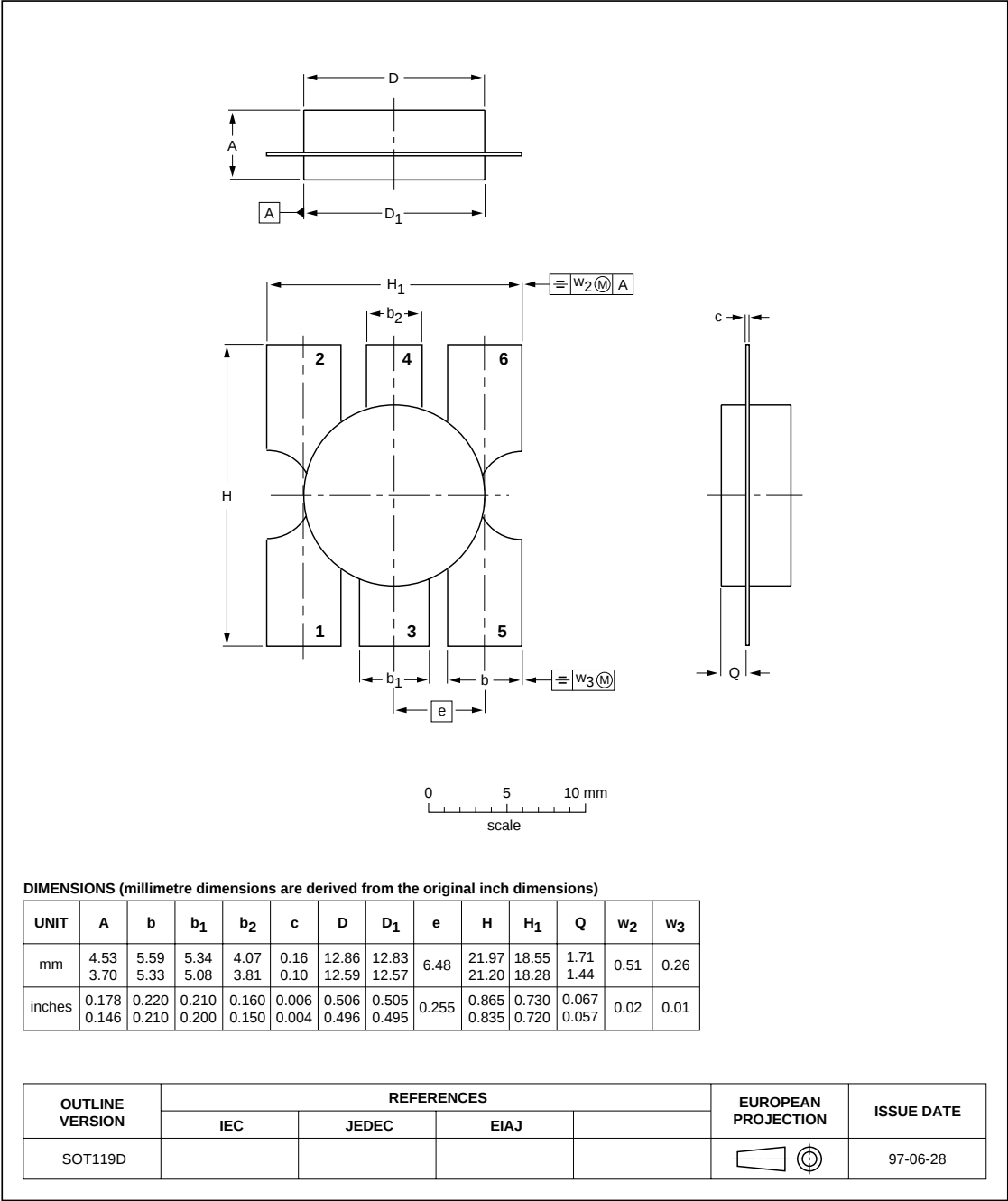
Flanged ceramic package; 2 mounting holes; 6 leads

SOT119A



Flangeless ceramic package; 6 leads

SOT119D

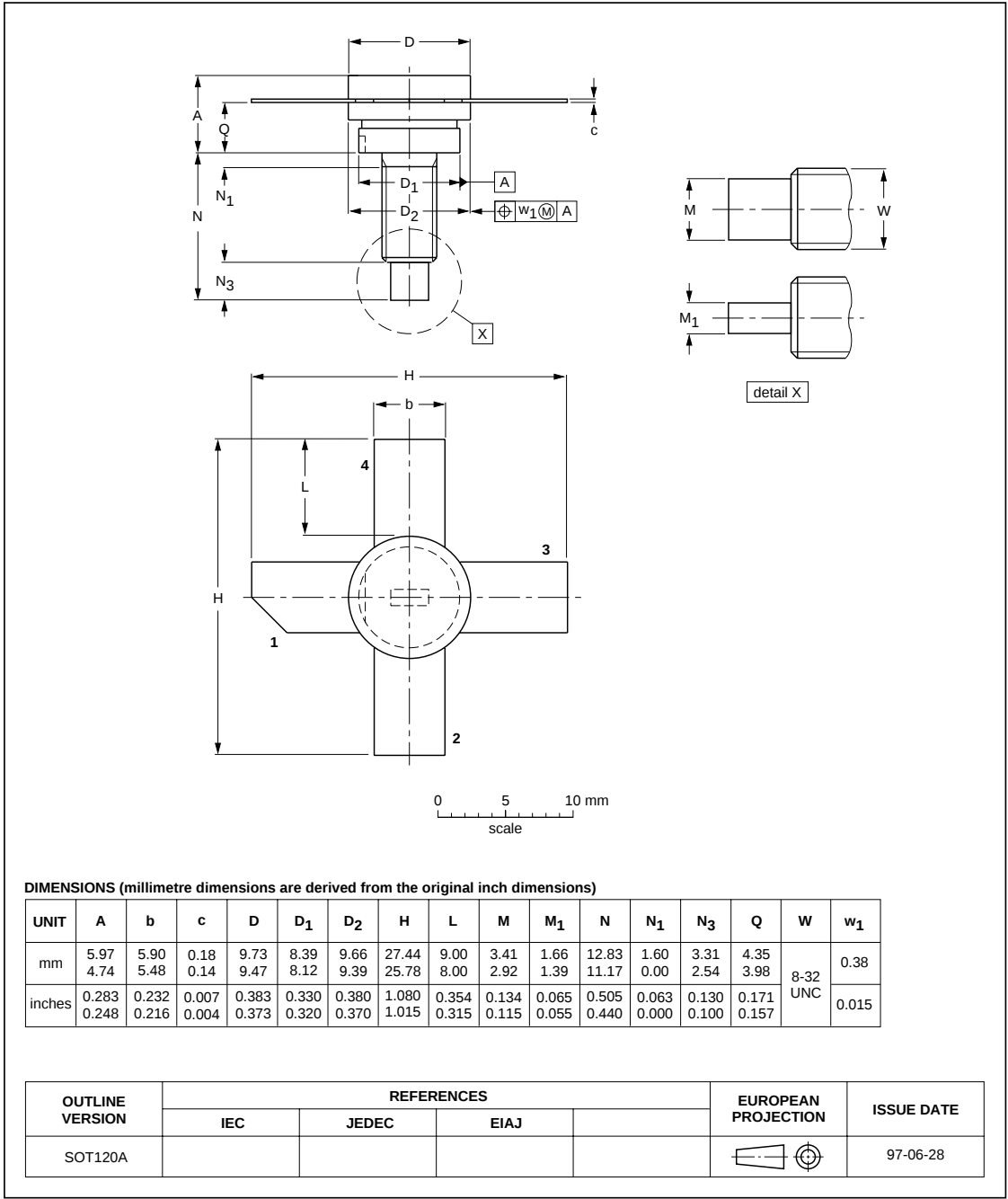


RF & Microwave Power Transistors
and RF Power Modules

Package outlines

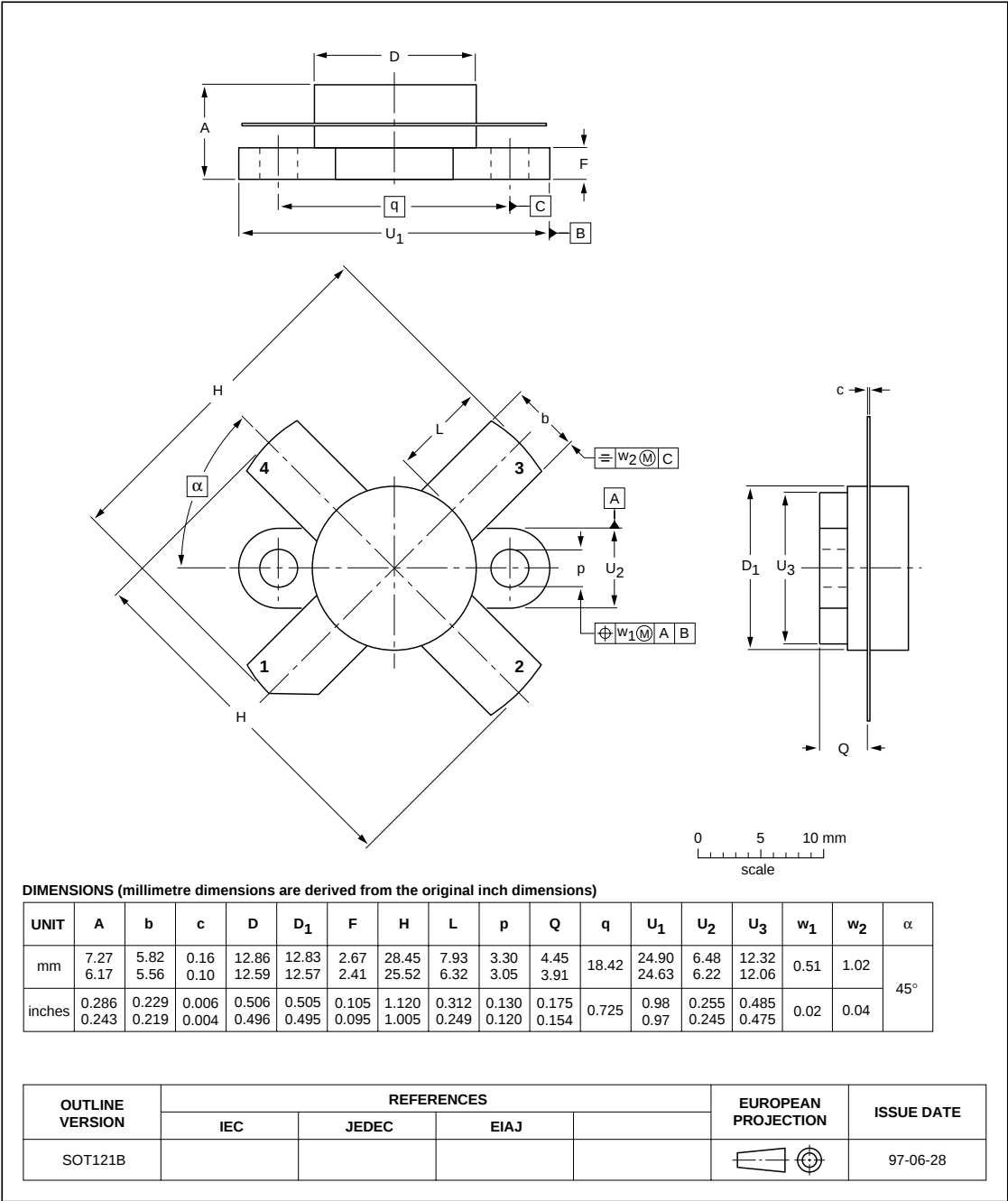
Studded ceramic package; 4 leads

SOT120A



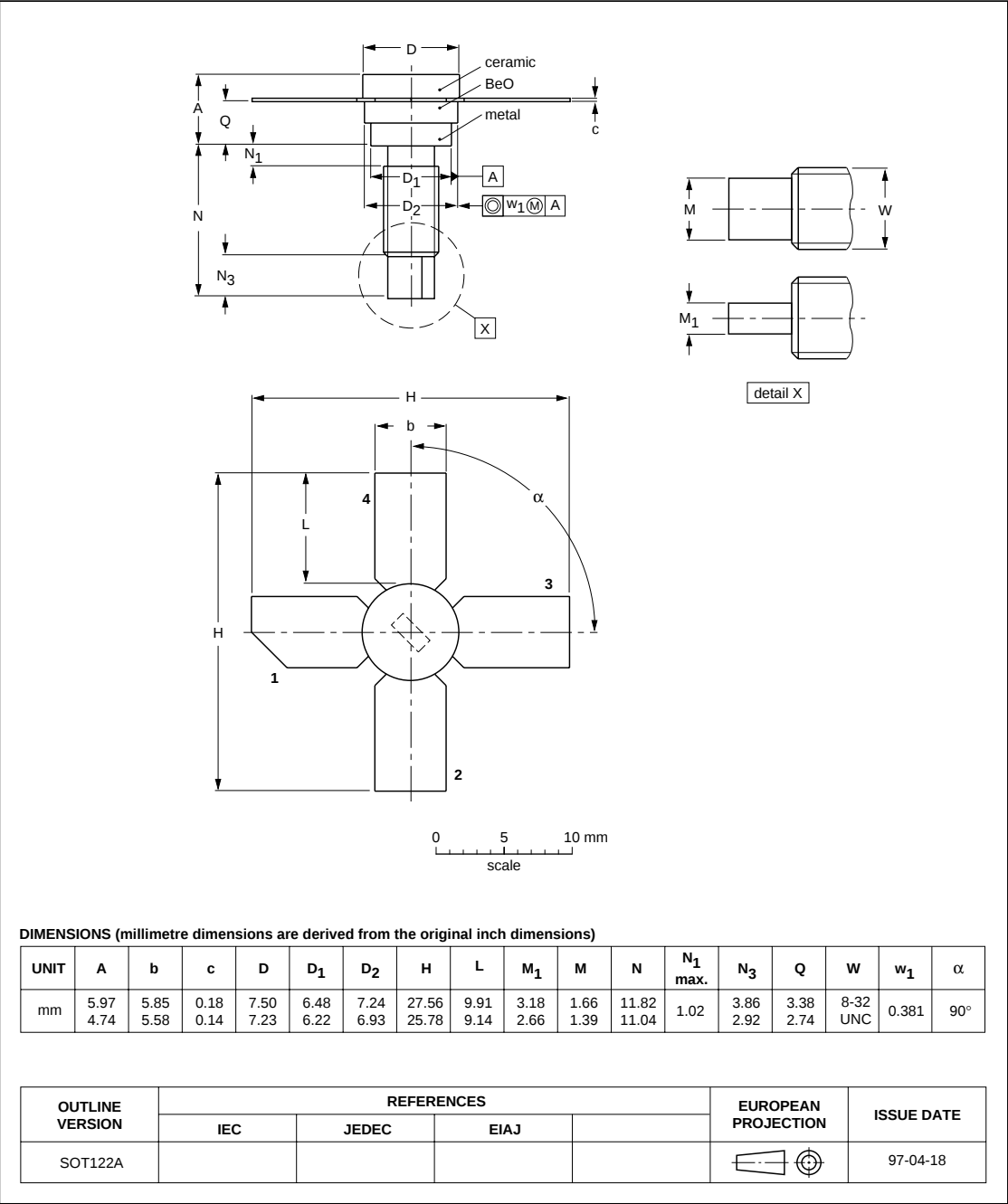
Flanged ceramic package; 2 mounting holes; 4 leads

SOT121B



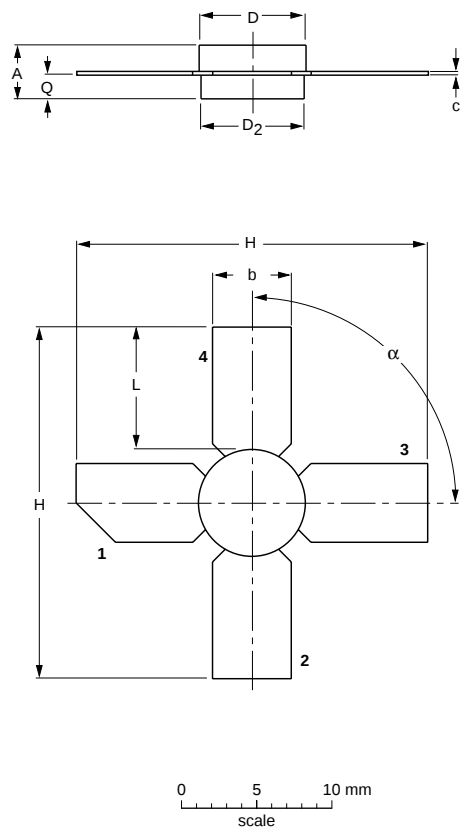
Studded ceramic package; 4 leads

SOT122A



Studless ceramic package; 4 leads

SOT122D



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₂	H	L	Q	α
mm	4.17 3.27	5.85 5.58	0.18 0.14	7.50 7.23	7.24 6.98	27.56 25.78	9.91 9.14	1.58 1.27	90°

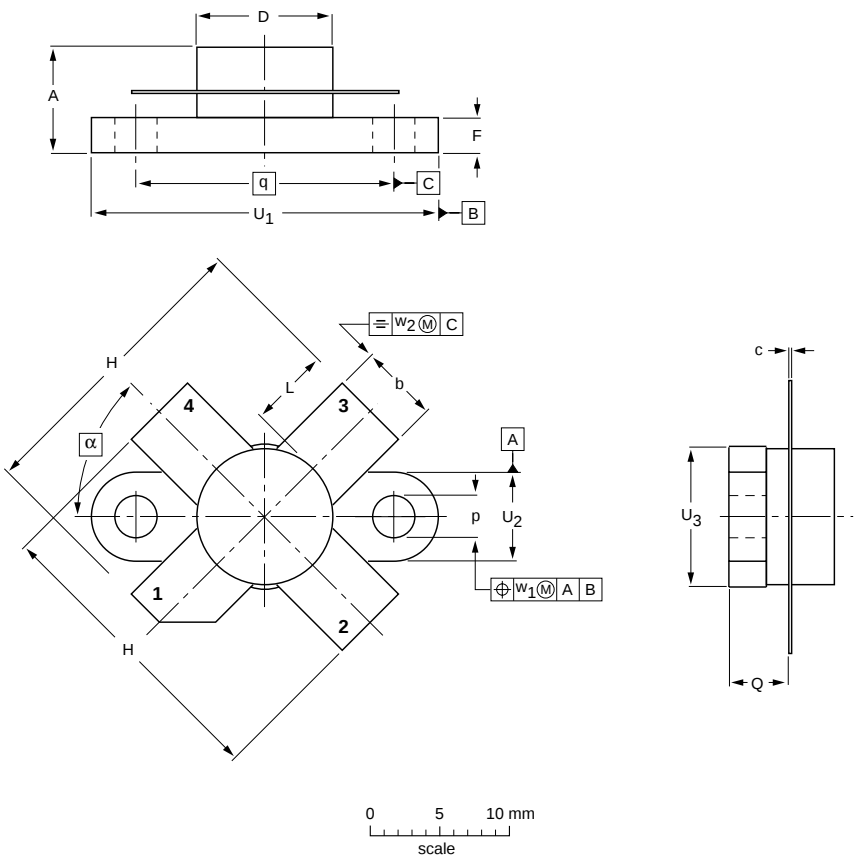
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT122D						97-04-18

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

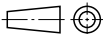
Flanged ceramic package; 2 mounting holes; 4 leads

SOT123A



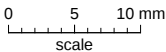
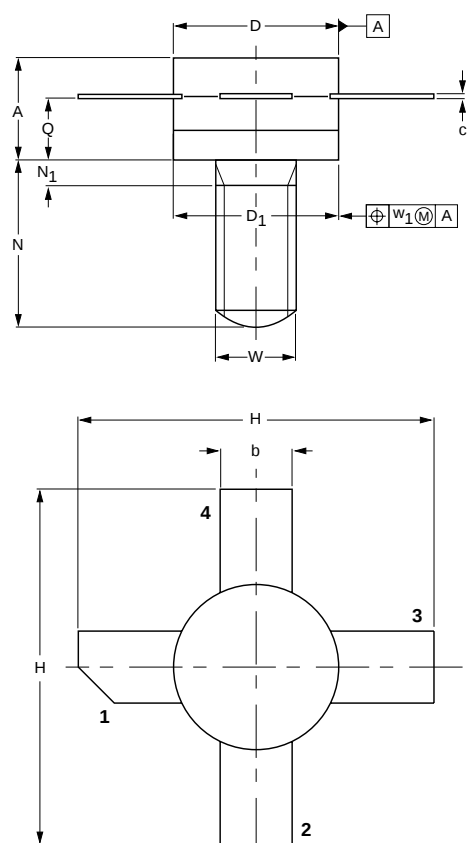
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₁	F	H	L	p	Q	q	U ₁	U ₂	U ₃	w ₁	w ₂	α
mm	7.47 6.37	5.82 5.56	0.18 0.10	9.73 9.47	9.63 9.42	2.72 2.31	20.71 19.93	5.61 5.16	3.33 3.04	4.63 4.11	18.42	25.15 24.38	6.61 6.09	9.78 9.39	0.51	1.02	45°
inches	0.294 0.251	0.229 0.219	0.007 0.004	0.383 0.373	0.397 0.371	0.107 0.091	0.815 0.785	0.221 0.203	0.131 0.120	0.182 0.162	0.725	0.99 0.96	0.26 0.24	0.385 0.370	0.02	0.04	

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT123A						97-06-28

Studded ceramic package; 4 leads

SOT147A



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₁	H	N	N ₁ max.	Q	W	w ₁
mm	8.06 7.18	5.82 5.56	0.16 0.10	12.86 12.59	13.34 12.57	28.45 27.43	13.39 12.62	1.40	5.24 4.92	1/4"× 28 UNF	0.51
inches	0.317 0.283	0.229 0.219	0.006 0.004	0.506 0.496	0.525 0.495	1.12 1.08	0.527 0.497	0.055	0.206 0.194		0.02

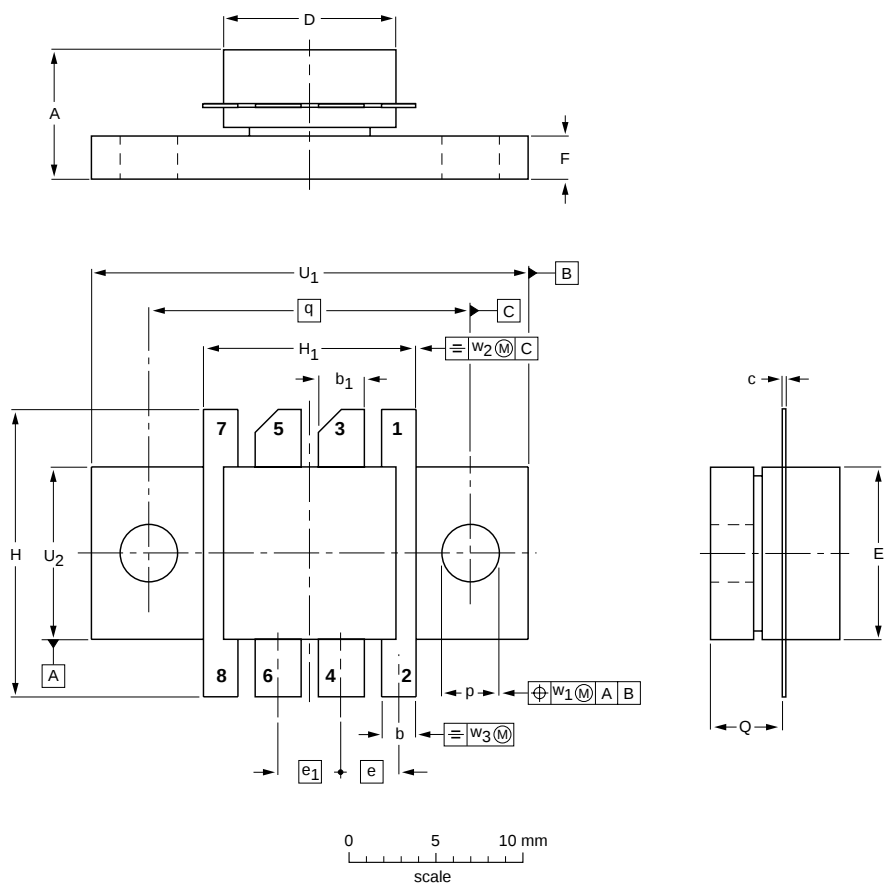
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT147A						97-06-28

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged ceramic package; 2 mounting holes; 8 leads

SOT161A



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	b ₁	c	D	E	e	e ₁	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	7.27 6.47	2.04 1.77	2.93 2.66	0.18 0.10	10.22 10.00	10.22 10.00	3.50 3.80	2.70 2.08	17.00 16.00	12.83 12.57	3.36 2.92	4.32 4.06	18.42	24.97 24.71	10.34 10.08	0.51 1.02	0.26		
inches	0.286 0.255	0.080 0.070	0.115 0.105	0.007 0.004	0.402 0.394	0.402 0.394	0.138 0.150	0.106 0.082	0.669 0.630	0.505 0.495	0.132 0.120	0.170 0.160	0.725	0.983 0.973	0.407 0.397	0.02 0.04	0.01		

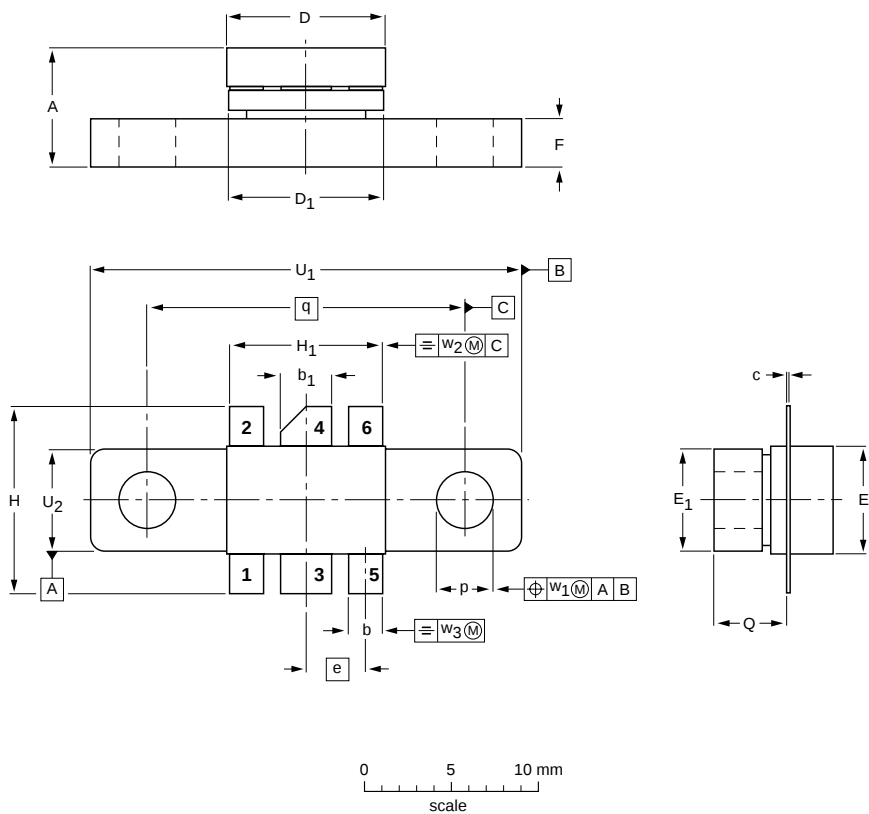
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT161A						97-06-28

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged ceramic package; 2 mounting holes; 6 leads

SOT171A



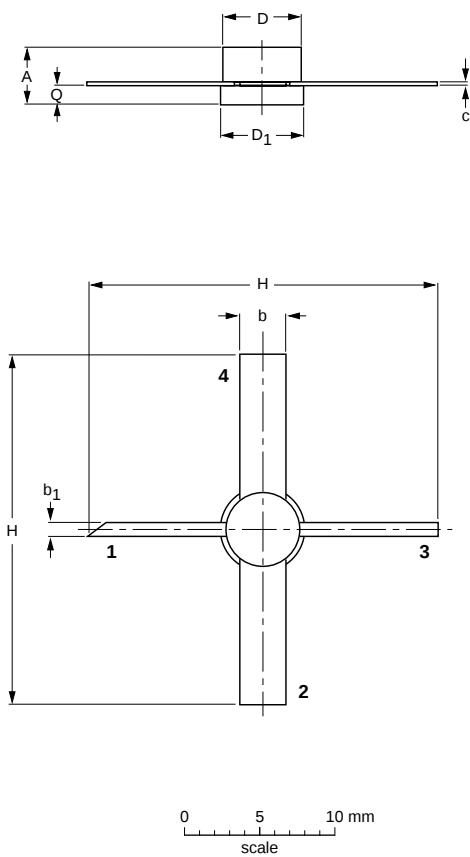
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	b ₁	c	D	D ₁	E	E ₁	e	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	6.81 6.07	2.15 1.85	3.20 2.89	0.16 0.07	9.25 9.04	9.30 8.99	5.95 5.74	6.00 5.70	3.58	3.05 2.54	11.31 10.54	9.27 9.01	3.43 3.17	4.32 4.11	18.42	24.90 24.63	6.00 5.70	0.51	1.02	0.26
inches	0.268 0.239	0.085 0.073	0.126 0.114	0.006 0.003	0.364 0.356	0.366 0.354	0.234 0.226	0.236 0.224	0.140	0.120 0.100	0.445 0.415	0.365 0.355	0.135 0.125	0.170 0.162	0.725	0.980 0.970	0.236 0.224	0.02	0.04	0.01

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT171A						97-06-28

Studless ceramic package; 4 leads

SOT172D



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	b ₁	c	D	D ₁	H	Q
mm	3.71 2.89	3.31 3.04	0.89 0.63	0.16 0.10	5.20 4.95	5.33 5.08	26.17 24.63	1.15 0.88
inches	0.146 0.114	0.13 0.12	0.035 0.025	0.006 0.004	0.205 0.195	0.210 0.200	1.03 0.97	0.045 0.035

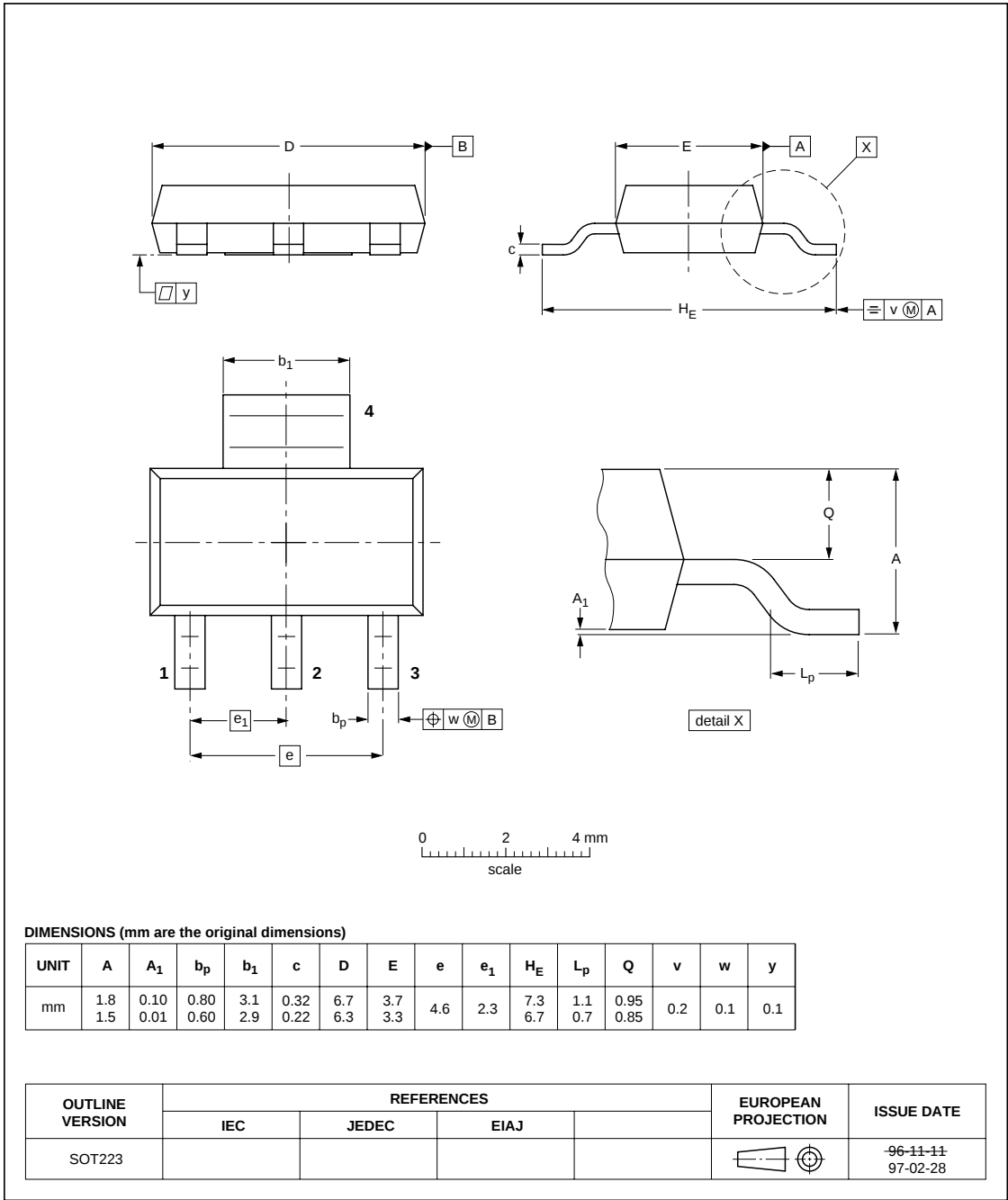
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT172D						97-06-28

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Plastic surface mounted package; collector pad for good heat transfer; 4 leads

SOT223

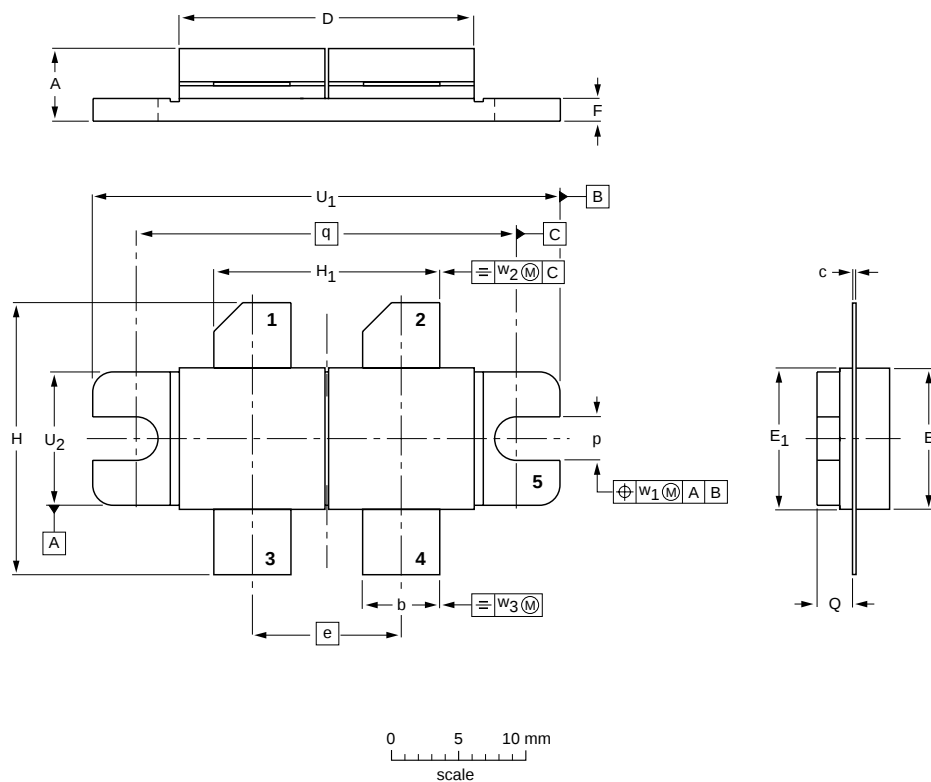


RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged double-ended ceramic package; 2 mounting holes; 4 leads

SOT262A1



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	e	E	E ₁	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	5.77 5.00	5.85 5.58	0.16 0.10	21.98 21.71	11.05	10.27 10.05	10.29 10.03	1.78 1.52	20.58 20.06	17.02 16.51	3.28 3.02	2.85 2.59	27.94	34.17 33.90	9.91 9.65	0.51	1.02	0.25
inches	0.227 0.197	0.230 0.220	0.006 0.004	0.865 0.855	0.435	0.404 0.396	0.405 0.395	0.070 0.060	0.81 0.79	0.67 0.65	0.129 0.119	0.112 0.102	1.100	1.345 1.335	0.390 0.380	0.02	0.04	0.01

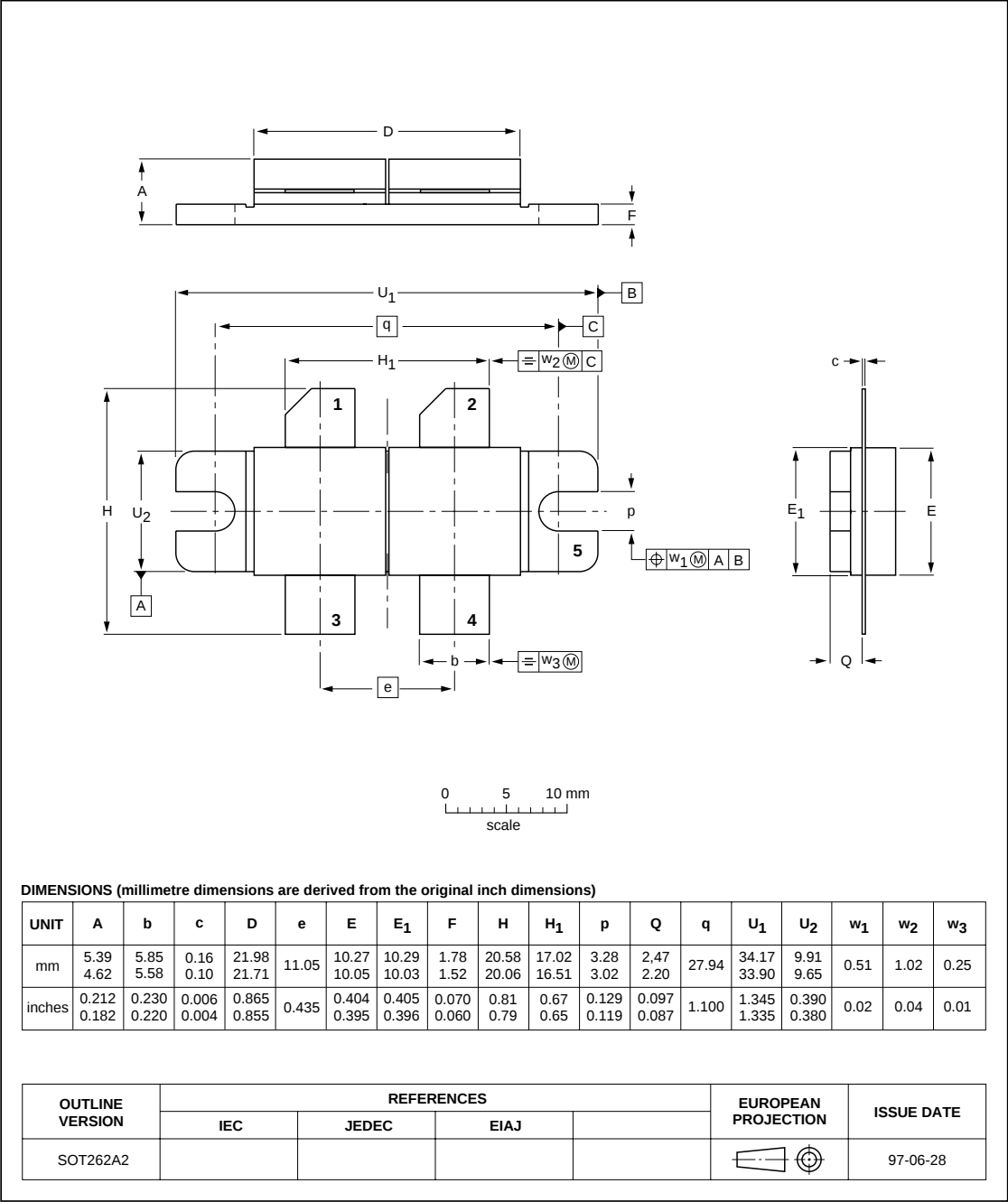
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT262A1						97-06-28

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

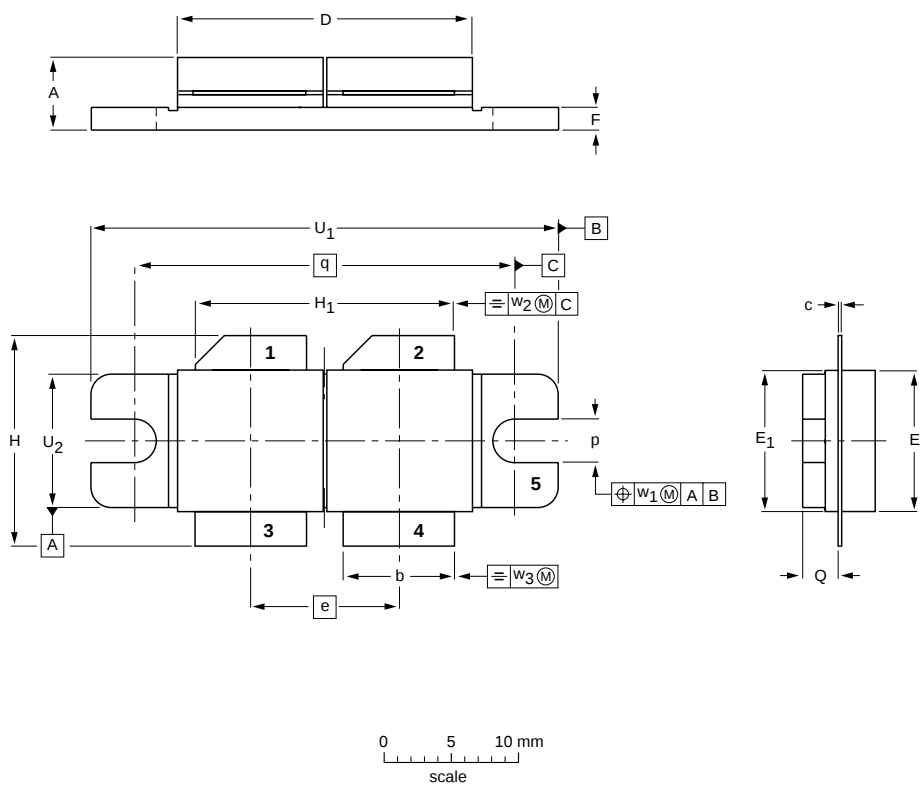
Flanged double-ended ceramic package; 2 mounting holes; 4 leads

SOT262A2



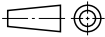
Flanged double-ended ceramic package; 2 mounting holes; 4 leads

SOT262B



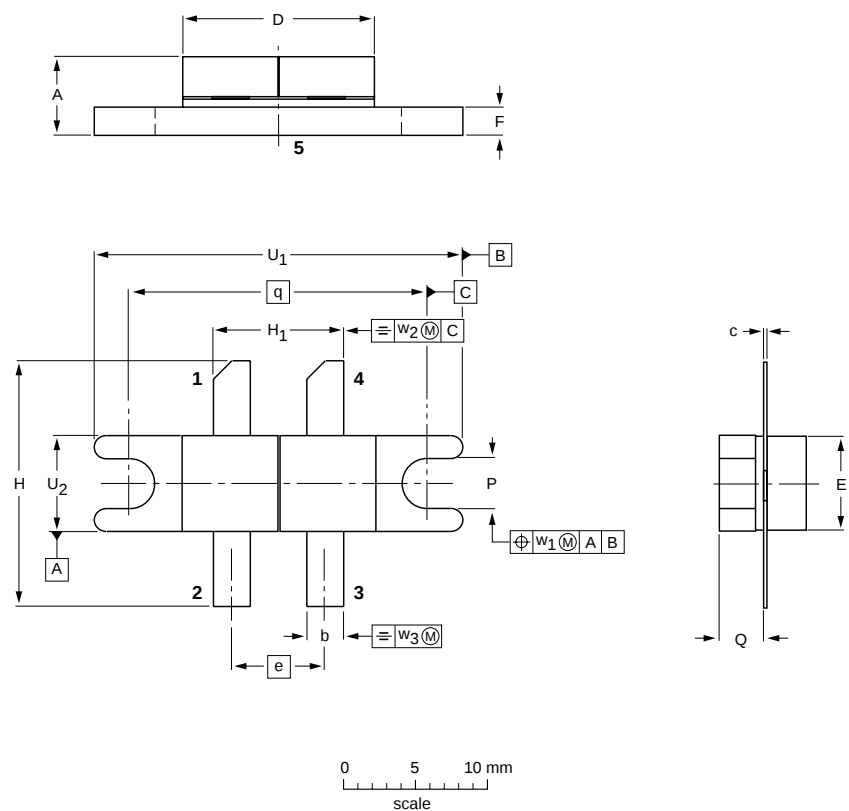
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	e	E	E ₁	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	5.39 4.62	8.51 8.25	0.16 0.10	21.98 21.71	11.05	10.27 10.05	10.29 10.03	1.78 1.52	15.50 14.98	19.69 19.17	3.28 3.02	2.47 2.20	27.94	34.17 33.90	9.91 9.65	0.51	1.02	0.25
inches	0.212 0.182	0.335 0.325	0.006 0.004	0.865 0.855	0.435	0.404 0.396	0.405 0.395	0.070 0.060	0.61 0.59	0.775 0.755	0.129 0.119	0.097 0.087	1.100	1.345 1.335	0.390 0.380	0.02	0.04	0.01

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT262B						97-06-28

Flanged double-ended ceramic package; 2 mounting holes; 4 leads

SOT268A



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	e	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	4.91 4.19	1.66 1.39	0.13 0.07	12.96 12.44	6.48 6.22	6.45	2.04 1.77	17.02 16.00	8.23 7.72	3.43 3.17	2.67 2.41	18.42	24.90 24.63	6.61 6.35	0.51	1.02	0.26
inches	0.193 0.165	0.065 0.055	0.005 0.003	0.510 0.490	0.255 0.245	0.254	0.080 0.070	0.670 0.630	0.324 0.304	0.135 0.125	0.105 0.095	0.725	0.980 0.970	0.260 0.250	0.02	0.04	0.01

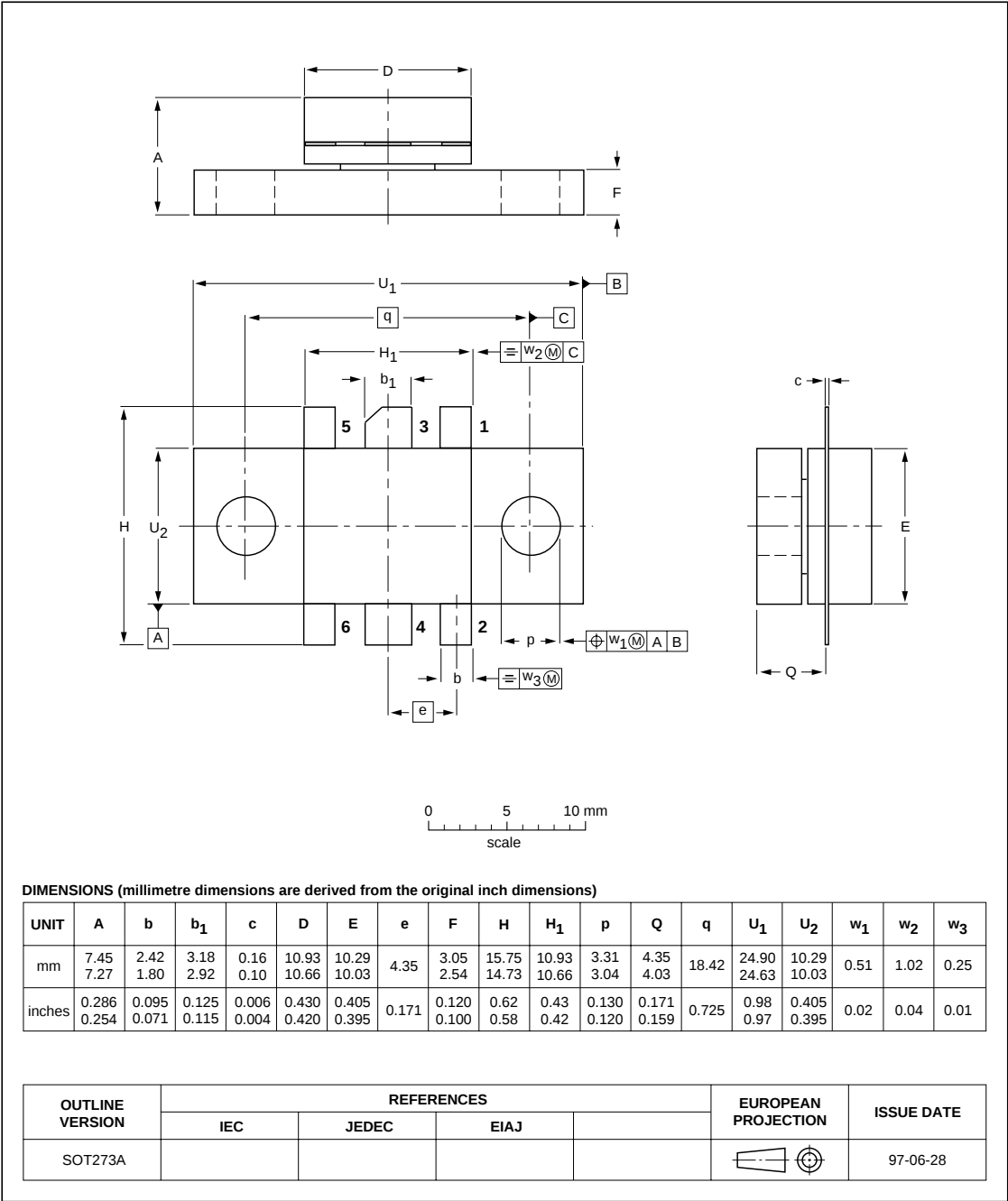
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT268A						97-06-28

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged ceramic package; 2 mounting holes; 6 leads

SOT273A

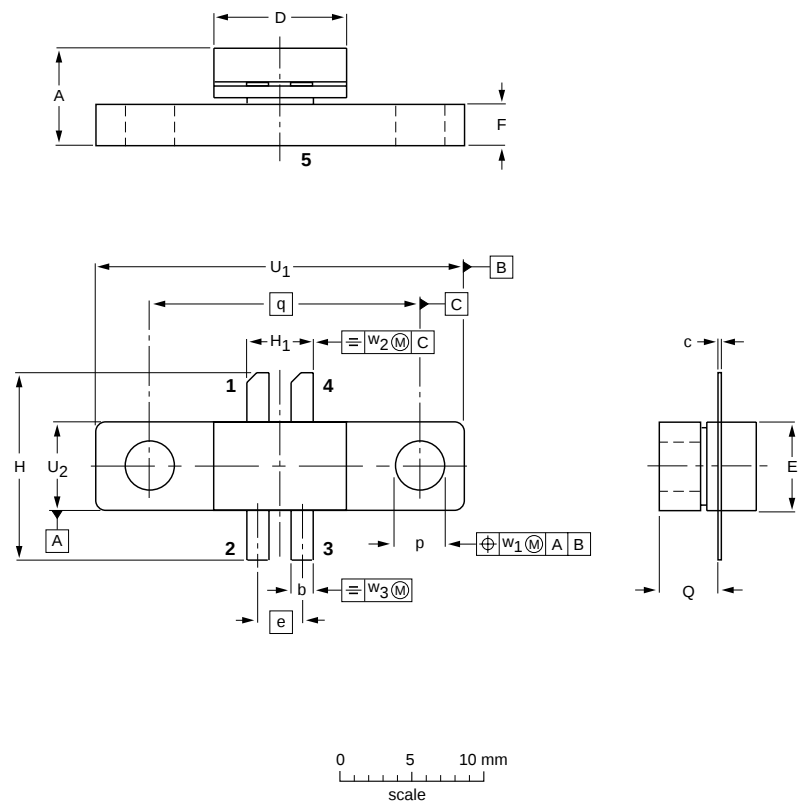


RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged double-ended ceramic package; 2 mounting holes; 4 leads

SOT279A



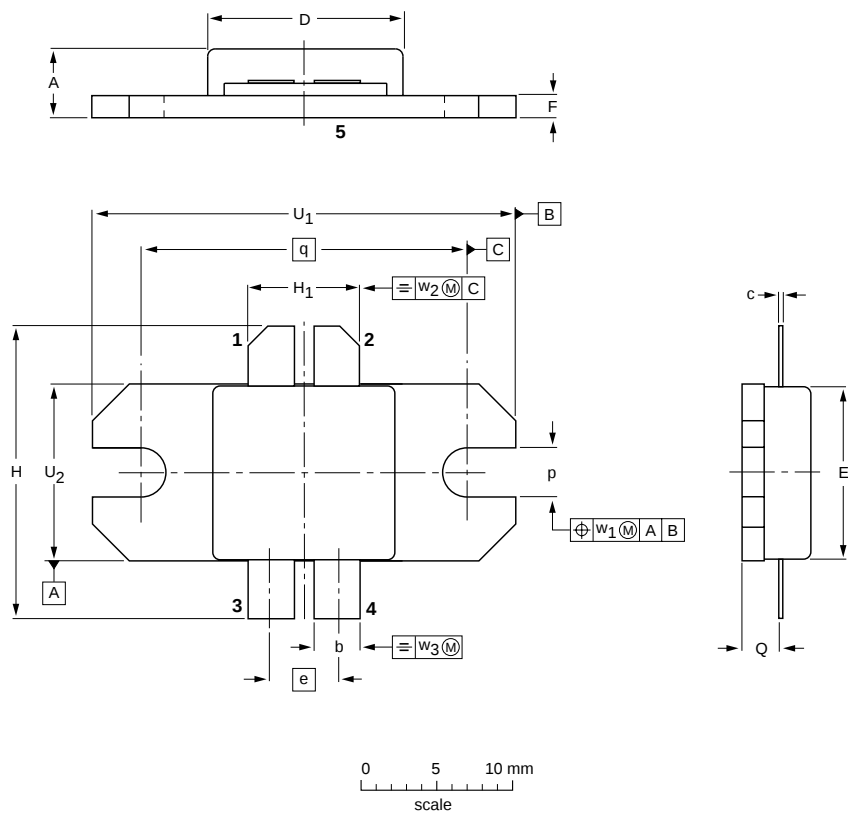
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	e	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	6.84 6.01	1.66 1.39	0.16 0.10	9.28 9.01	5.97 5.71	3.05	3.05 2.54	12.96 11.93	4.96 4.19	3.48 3.22	4.35 4.03	18.42	24.90 24.63	5.97 5.71	0.51	1.02	0.25
inches	0.269 0.237	0.065 0.055	0.006 0.004	0.365 0.355	0.235 0.225	0.12	0.120 0.100	0.51 0.47	0.195 0.165	0.137 0.127	0.171 0.159	0.725	0.98 0.97	0.235 0.225	0.02	0.04	0.01

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT279A						97-06-28

Flanged ceramic package; 2 mounting holes; 4 leads

SOT289A



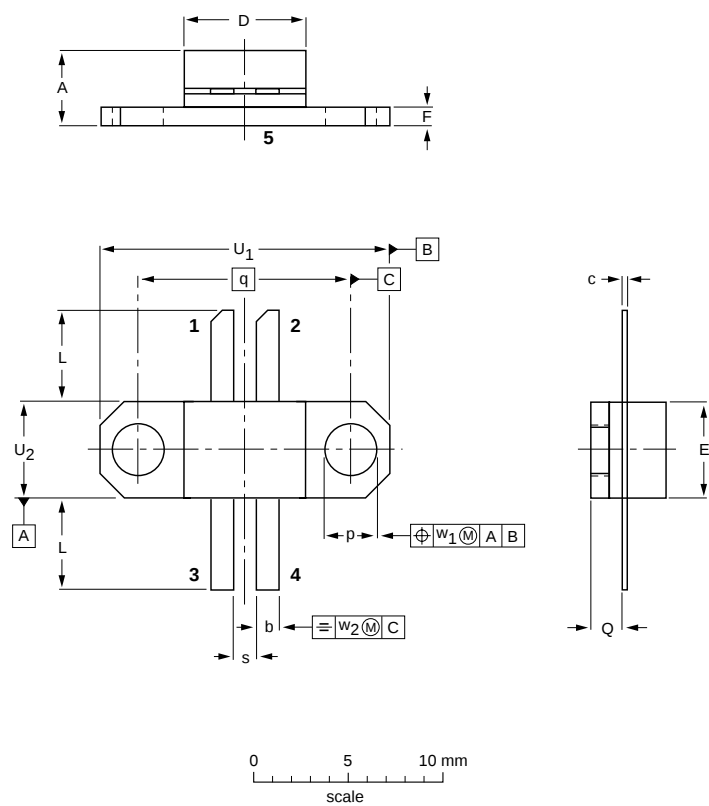
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	e	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	4.65 3.92	3.33 3.07	0.10 0.05	13.10 12.90	11.53 11.33	4.60	1.65 1.40	19.81 19.05	4.85 4.34	3.43 3.17	2.31 2.06	21.44	28.07 27.81	11.81 11.56	0.51	1.02	0.25
inches	0.183 0.154	0.131 0.121	0.004 0.002	0.516 0.508	0.454 0.446	0.181	0.065 0.055	0.780 0.750	0.191 0.171	0.135 0.125	0.091 0.081	0.844	1.105 1.095	0.465 0.455	0.02	0.04	0.01

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT289A						97-06-28

Flanged ceramic package; 2 mounting holes; 4 leads

SOT324B

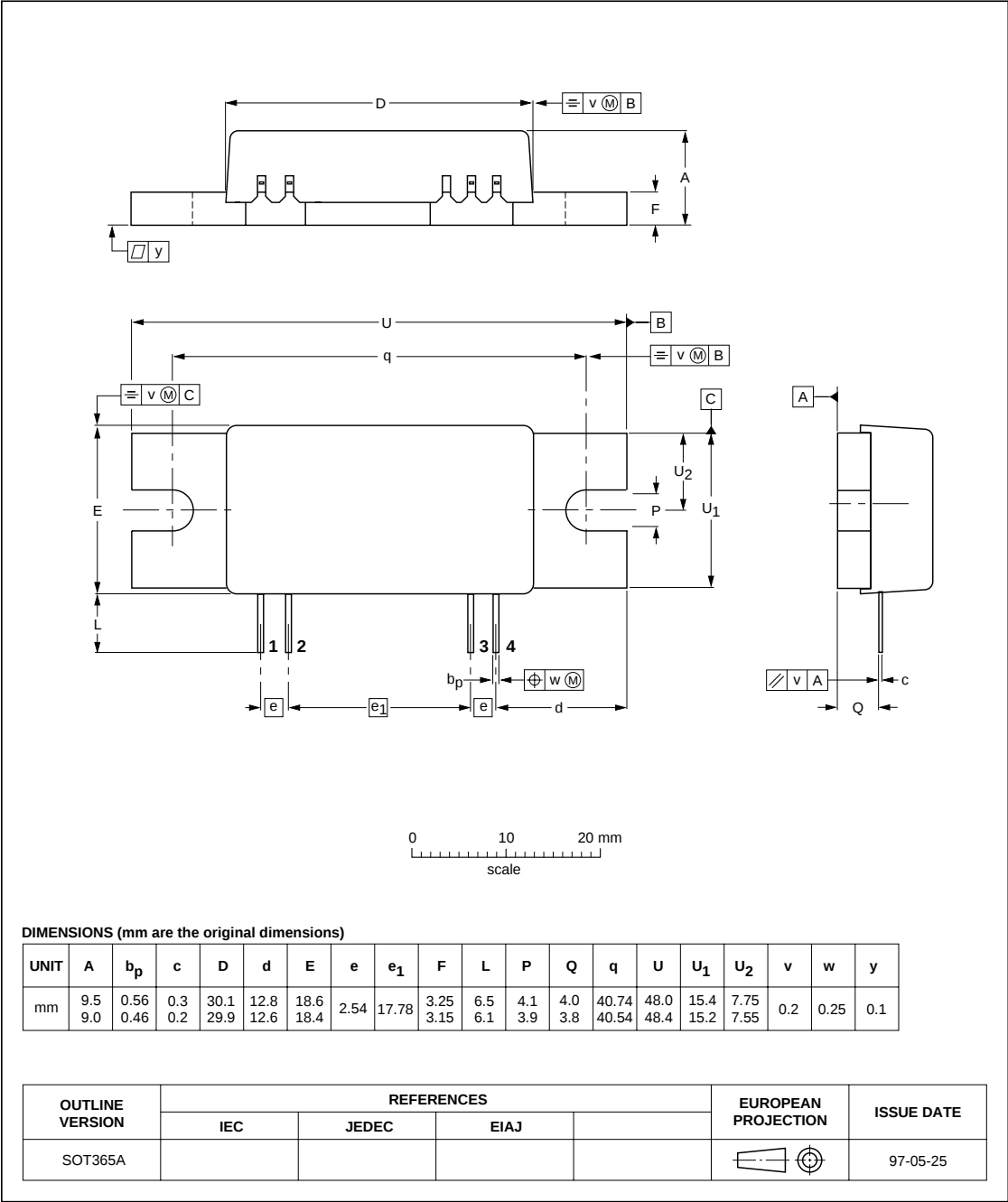


DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	L	p	Q	q	s	U ₁	U ₂	w ₁	w ₂
mm	4.37 3.55	1.66 1.39	0.13 0.07	8.69 8.07	6.91 6.29	1.66 1.39	5.59 4.57	3.43 3.17	2.32 2.00	14.22	1.66 1.39	19.03 18.77	6.43 6.17	0.51	1.02

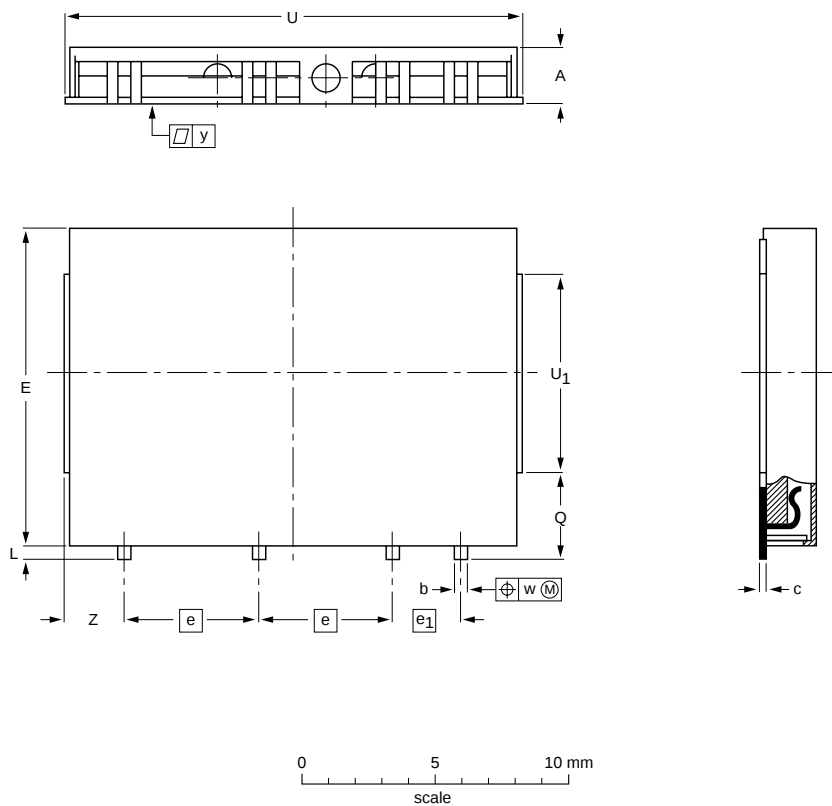
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT324B						97-06-05

Plastic rectangular single-ended flat package; flange mounted; 2 mounting holes; 4 in-line leads SOT365A



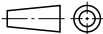
Rectangular single-ended surface-mount package; metal cap; 4 in-line leads

SOT388A



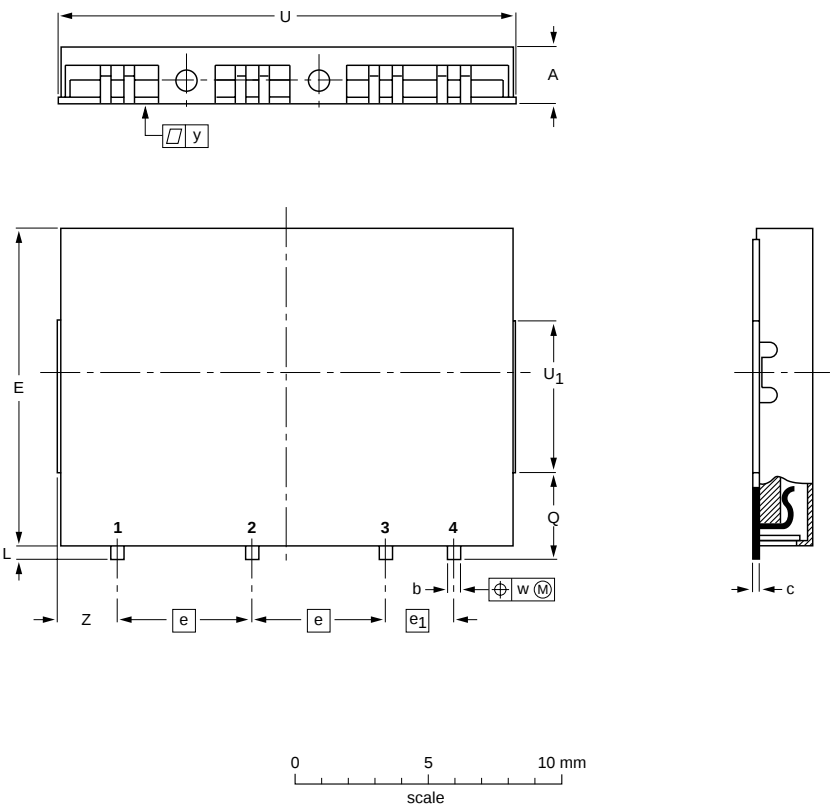
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	e	e ₁	E	L	Q	U	U ₁	w	y	z
mm	2.2 1.8	0.56 0.46	0.30 0.20	5.08	2.54	12.2 11.8	0.7 0.3	3.45 3.05	17.3 16.9	7.7 7.3	0.25	0.15	2.3 1.9

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT388A						97-04-18

Rectangular single-ended surface-mount package; metal cap; 4 in-line leads

SOT388B



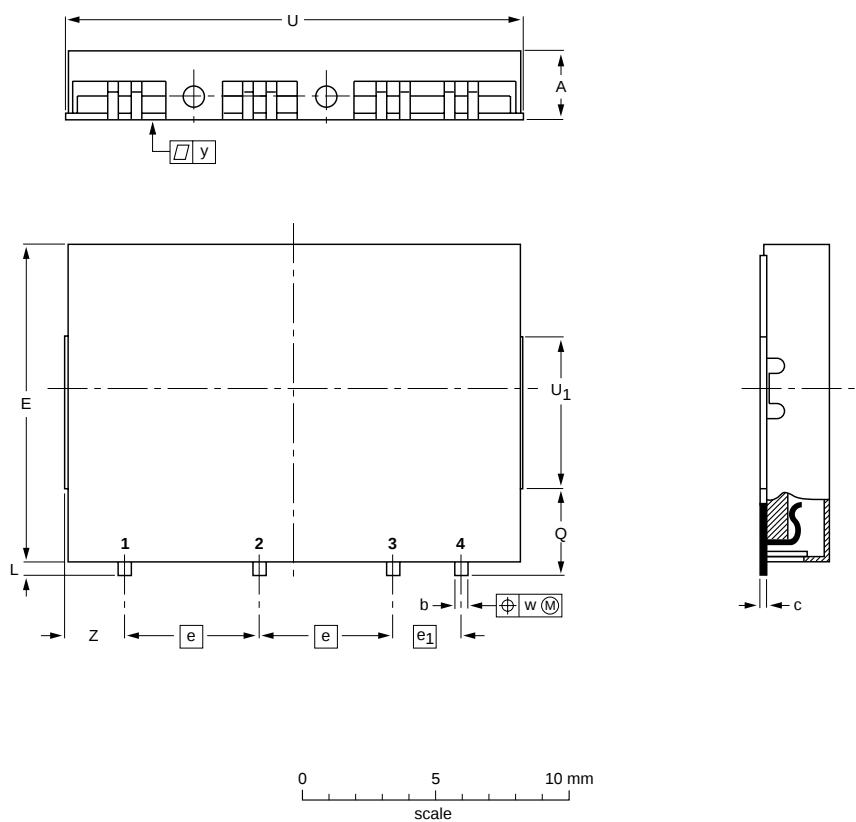
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	e	e ₁	E	L	Q	U	U ₁	w	y	z
mm	2.2 1.8	0.56 0.46	0.30 0.20	5.08	2.54	12.2 11.8	0.7 0.3	3.4 3.0	17.3 16.9	6.0 5.6	0.25	0.15	2.3 1.9

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT388B						97-11-19

Rectangular single-ended surface-mount package; metal cap; 4 in-line leads

SOT388C



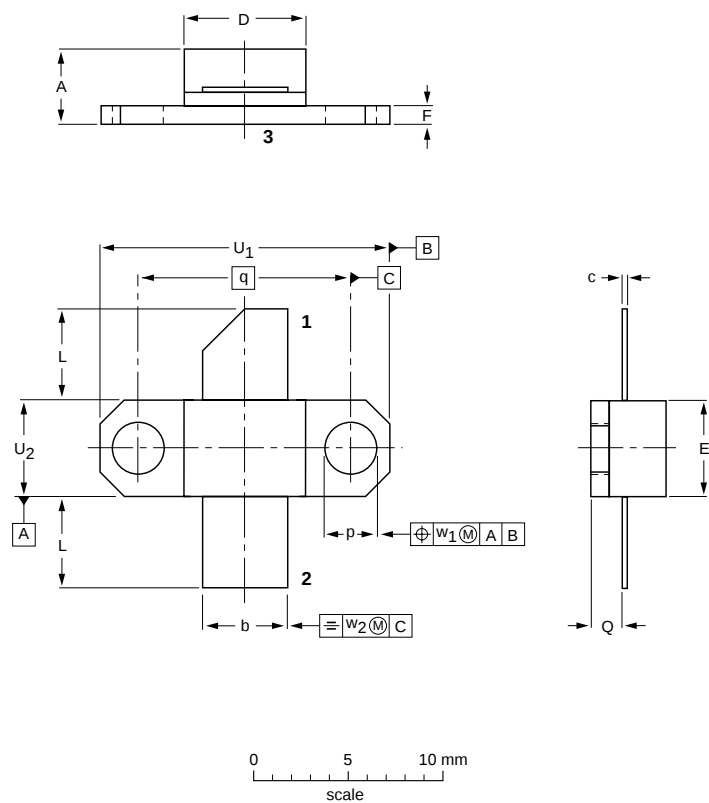
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	e	e ₁	E	L	Q	U	U ₁	w	y	z
mm	2.7 2.3	0.56 0.46	0.30 0.20	5.08	2.54	12.2 11.8	0.7 0.3	3.4 3.0	17.3 16.9	6.0 5.6	0.25	0.15	2.3 1.9

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT388C						97-10-02

Flanged ceramic package; 2 mounting holes; 2 leads

SOT390A



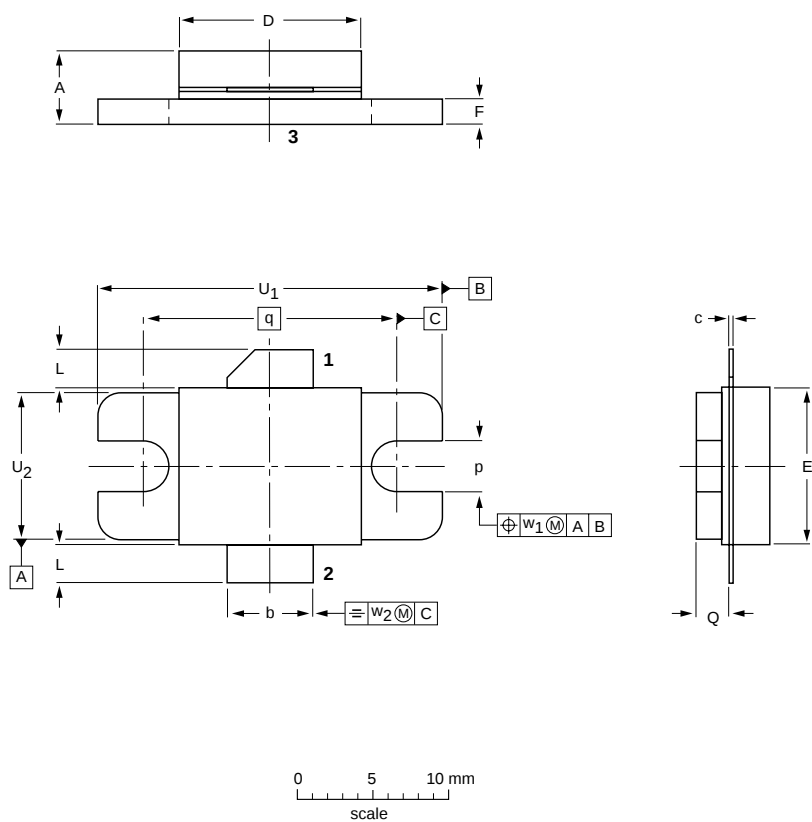
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	L	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	4.37 3.55	5.72 5.46	0.16 0.10	8.69 8.07	6.91 6.29	1.66 1.39	6.10 5.33	3.43 3.17	2.32 2.00	14.22	19.03 18.77	6.43 6.17	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT390A						97-05-29

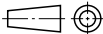
Flanged ceramic package; 2 mounting holes; 2 leads

SOT391A



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	L	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	5.36 4.29	5.85 5.58	0.16 0.10	11.54 10.51	10.93 9.90	1.66 1.39	2.79 2.29	3.43 3.17	2.29 2.03	16.51	22.99 22.73	9.91 9.65	0.51	1.02

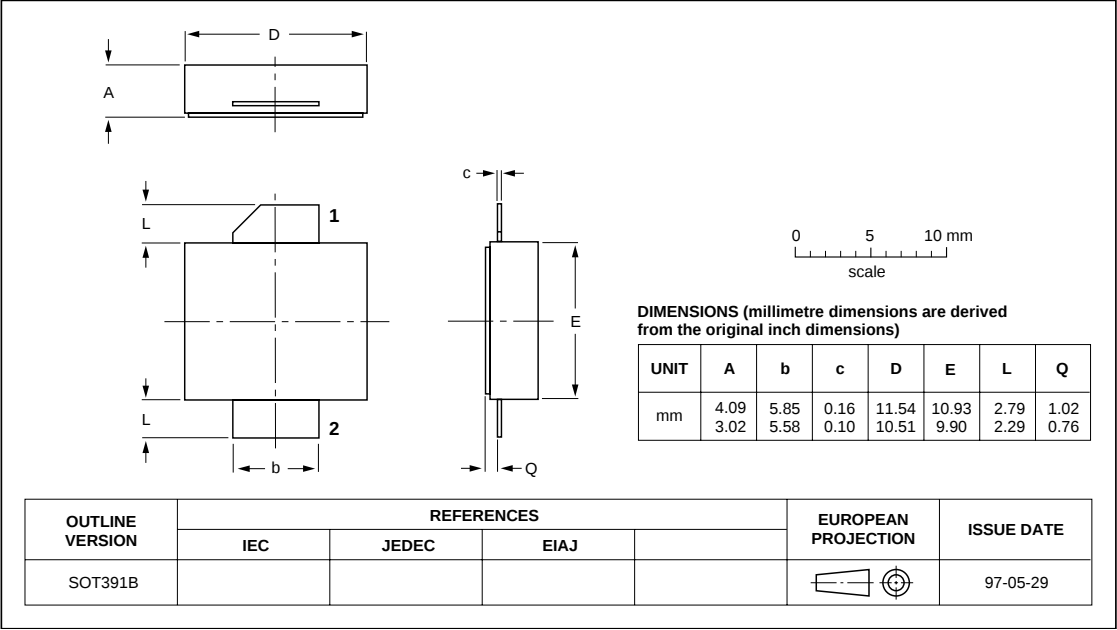
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT391A						97-05-29

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

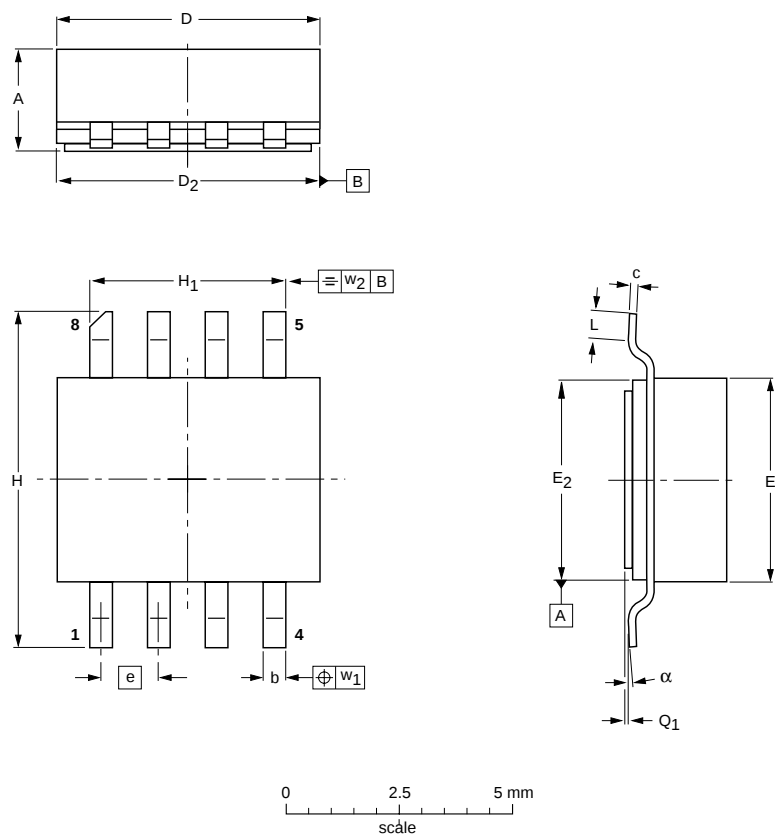
Flangeless ceramic package; 2 leads

SOT391B



Ceramic surface mounted package; 8 leads

SOT409A



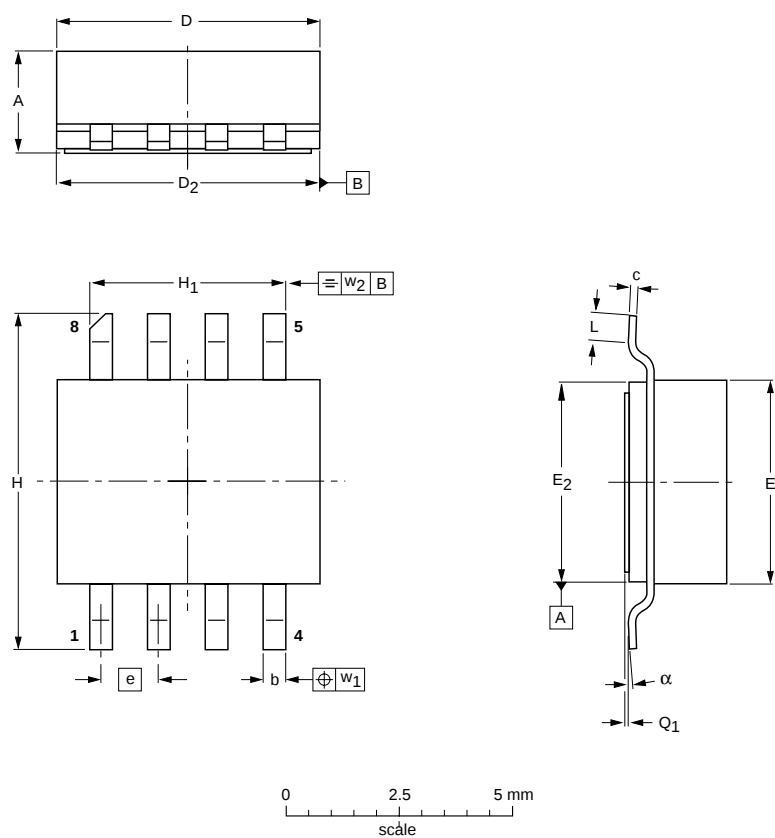
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₂	E	E ₂	e	H	H ₁	L	Q ₁	w ₁	w ₂	α
mm	2.36 2.06	0.58 0.43	0.23 0.18	5.94 5.03	5.16 5.00	4.93 4.01	4.14 3.99	1.27	7.47 7.26	4.39 4.24	1.02 0.51	0.10 0.00	0.25	0.25	7° 0°
inches	0.093 0.081	0.023 0.017	0.009 0.007	0.234 0.198	0.203 0.197	0.194 0.158	0.163 0.157	0.050	0.294 0.286	0.173 0.167	0.040 0.020	0.004 0.000	0.010	0.010	7° 0°

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT409A						98-01-27

Ceramic surface mounted package; 8 leads

SOT409B



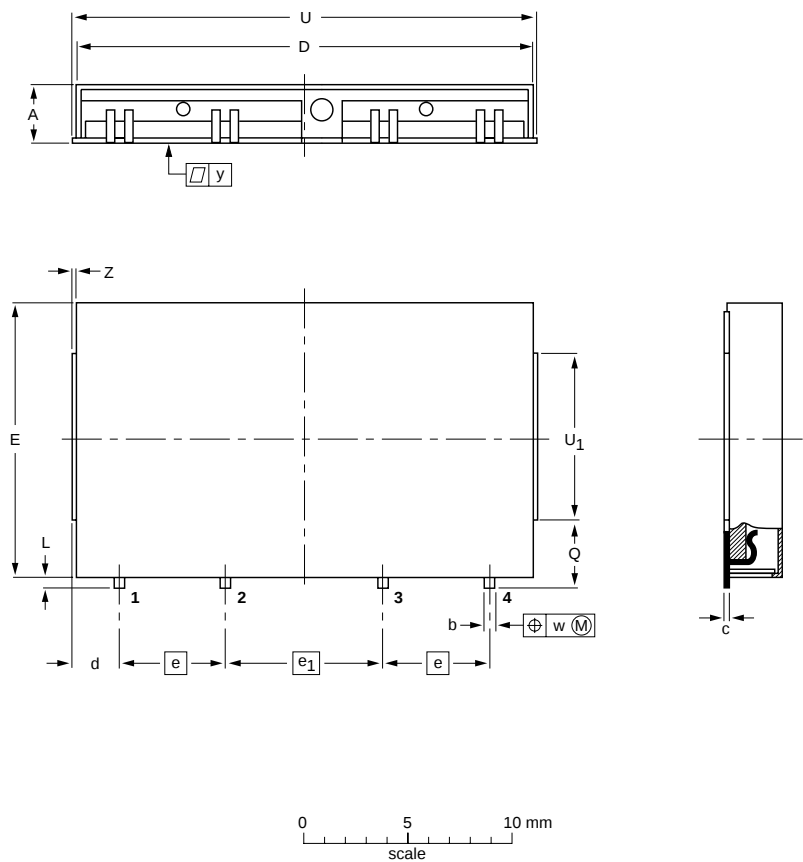
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₂	E	E ₂	e	H	H ₁	L	Q ₁	w ₁	w ₂	α
mm	2.36 2.06	0.58 0.43	0.15 0.10	5.94 5.03	5.16 5.00	4.93 4.01	4.14 3.99	1.27	7.47 7.26	4.39 4.24	0.84 0.69	0.10 0.00	0.25	0.25	2° 0°
inches	0.093 0.081	0.023 0.017	0.006 0.004	0.234 0.198	0.203 0.197	0.194 0.158	0.163 0.157	0.050	0.294 0.286	0.173 0.167	0.033 0.027	0.004 0.000	0.010	0.010	2° 0°

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT409B						98-01-27

Ceramic single-ended flat package; 4 in-line leads

SOT421A



DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	D	d	E	e	e ₁	L	Q	U	U ₁	w	y	Z
mm	3.0 2.6	0.56 0.46	0.30 0.20	22.1 21.7	2.4 2.0	13.4 13.0	5.08	7.62	0.7 0.3	3.4 3.0	22.4 22.0	8.2 7.8	0.25	0.15	0.25 0.05

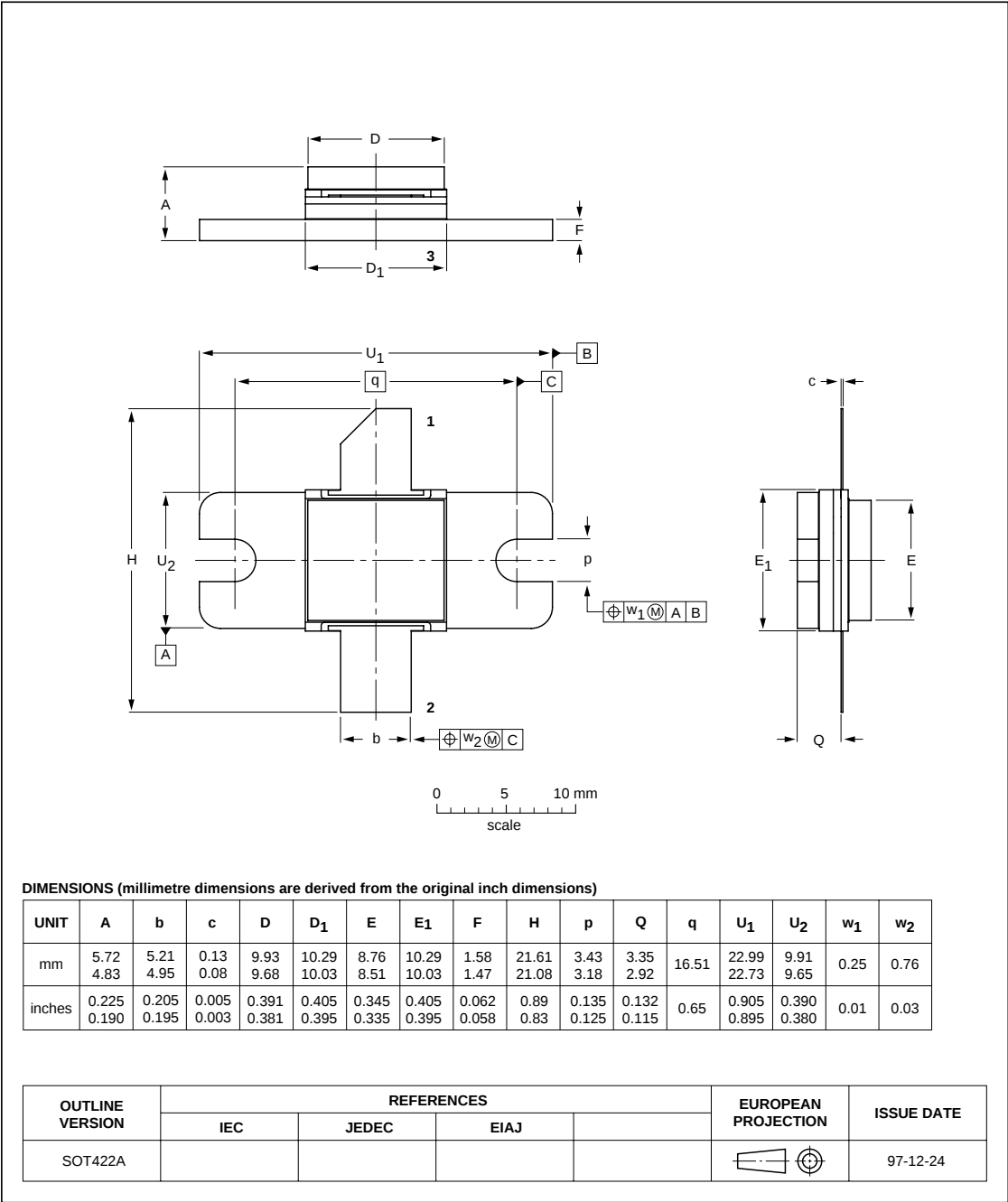
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT421A						97-06-20

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT422A

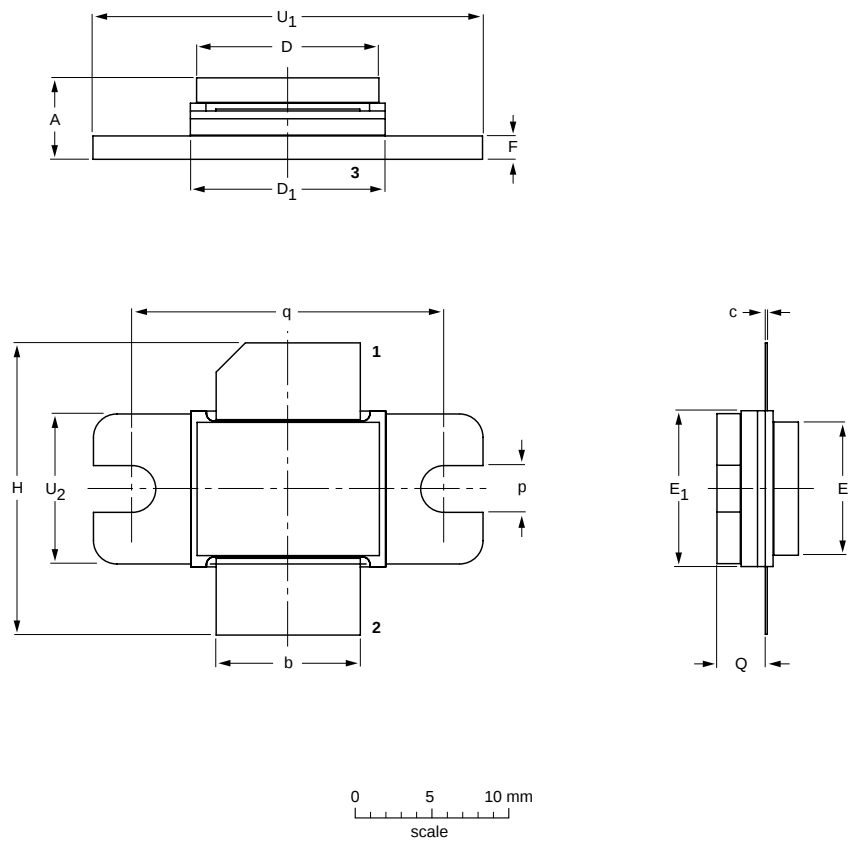


RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT423A



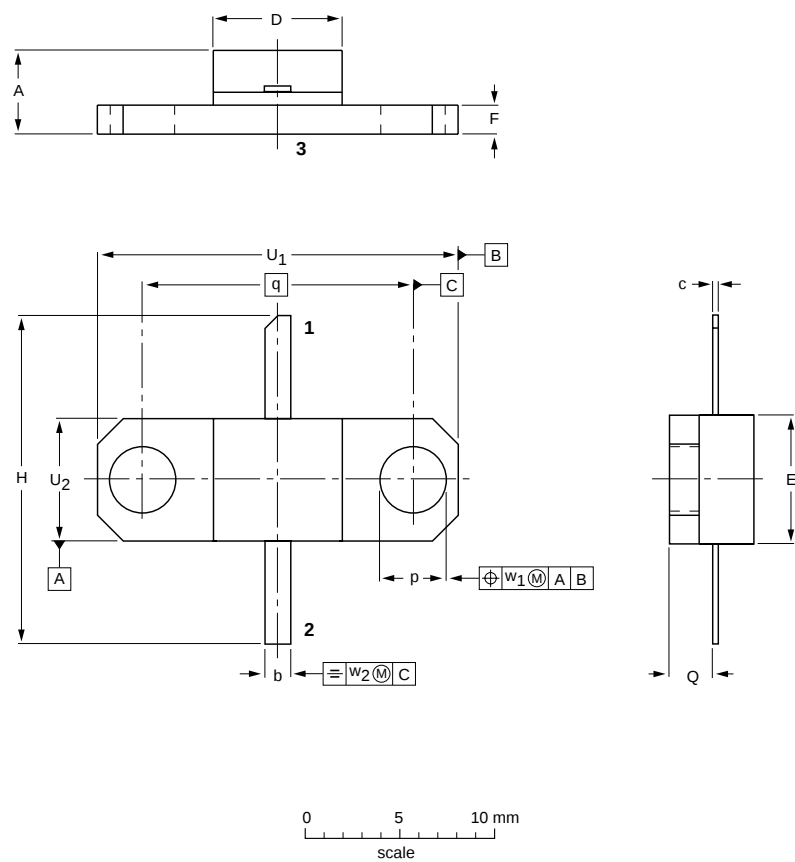
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	D	D ₁	E	E ₁	F	H	p	Q	q	U ₁	U ₂
mm	5.58 5.04	9.53 9.27	0.16 0.10	12.02 11.76	12.83 12.57	8.82 8.56	10.29 10.03	1.58 1.46	19.18 18.92	3.43 3.17	3.42 2.88	16.64 16.38	22.99 22.73	9.91 9.65

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT423A						97-04-01

Flanged ceramic package; 2 mounting holes; 2 leads

SOT437A



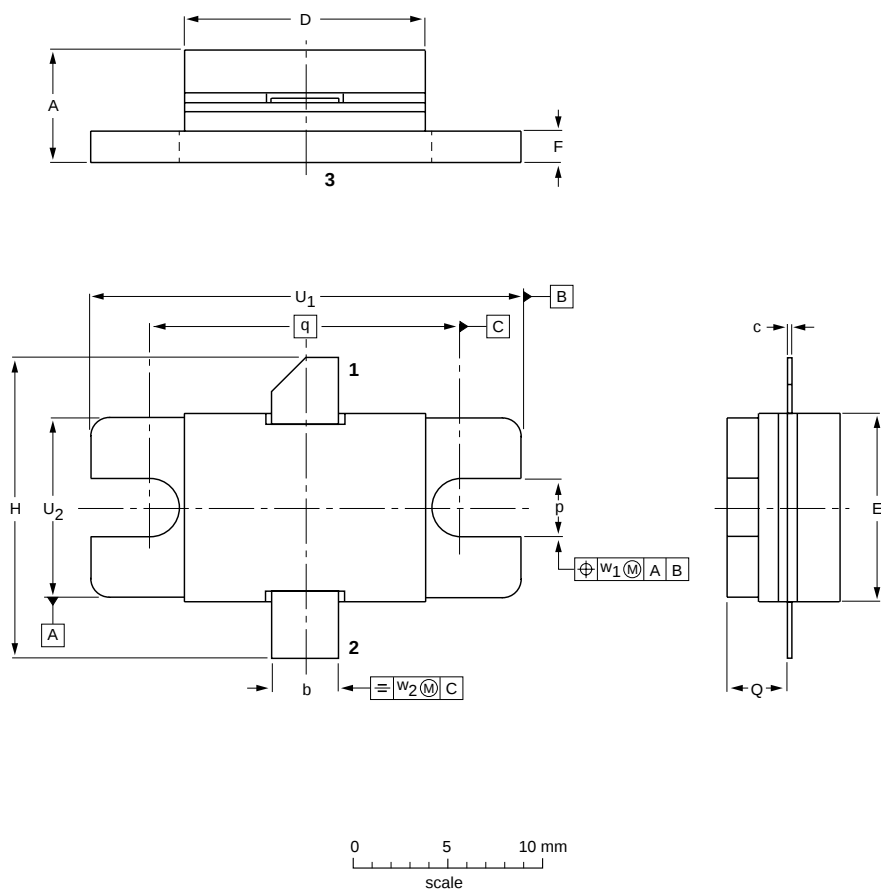
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	5.03 4.31	1.66 1.39	0.13 0.07	6.99 6.22	6.99 6.22	1.66 1.39	17.02 16.00	3.43 3.17	2.29 2.03	14.22	19.03 18.77	6.48 6.22	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT437A						97-05-23

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT439A



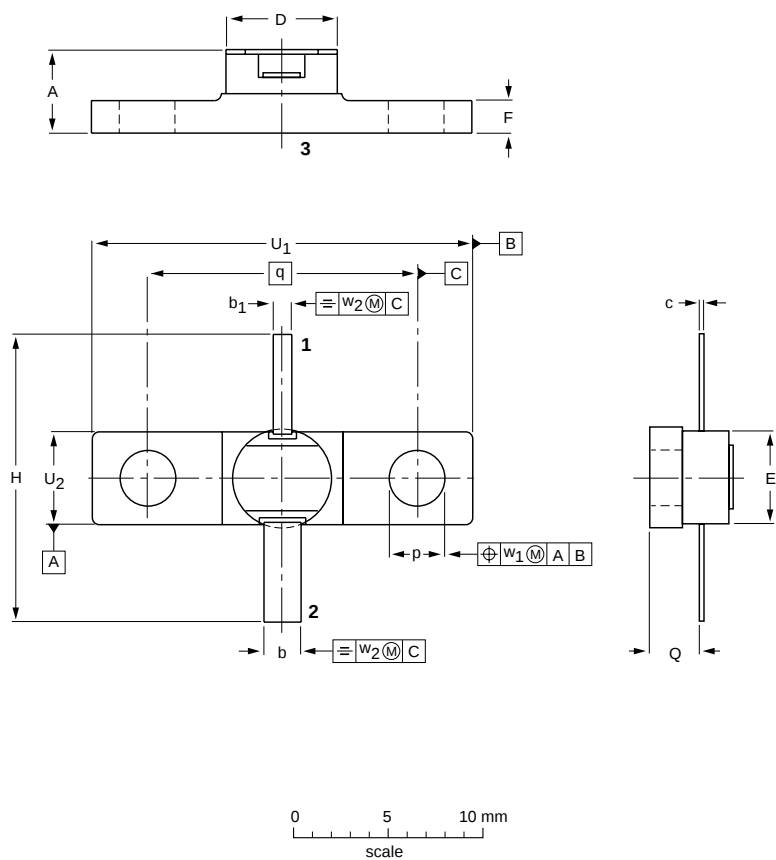
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	6.05 5.13	3.69 3.42	0.13 0.05	13.09 12.57	10.55 10.03	1.58 1.47	17.28 15.74	3.43 3.17	3.36 2.92	16.51	22.94 22.73	9.91 9.65	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT439A						97-05-23

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT440A



DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	b ₁	c	D	E	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	4.25 3.27	2.16 1.90	1.15 0.88	0.16 0.07	5.85 5.58	5.31 5.00	1.66 1.39	15.75 14.73	3.18 2.92	3.48 2.92	14.22	20.45 20.19	5.21 4.95	0.51	1.02

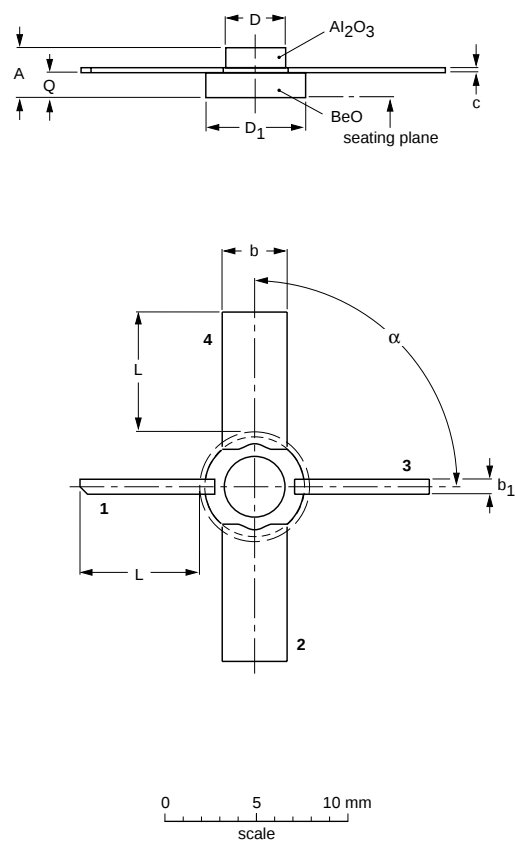
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT440A						97-05-23

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Studless ceramic package; 4 leads

SOT441A

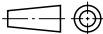


DIMENSIONS (mm are the original dimensions)

UNIT	A max.	b	b ₁	c	D	D ₁	L min.	Q	α
mm	2.4	3.2	0.75	0.125	3.38 3.08	5.28 5.12	6	1.3 1.0	90°

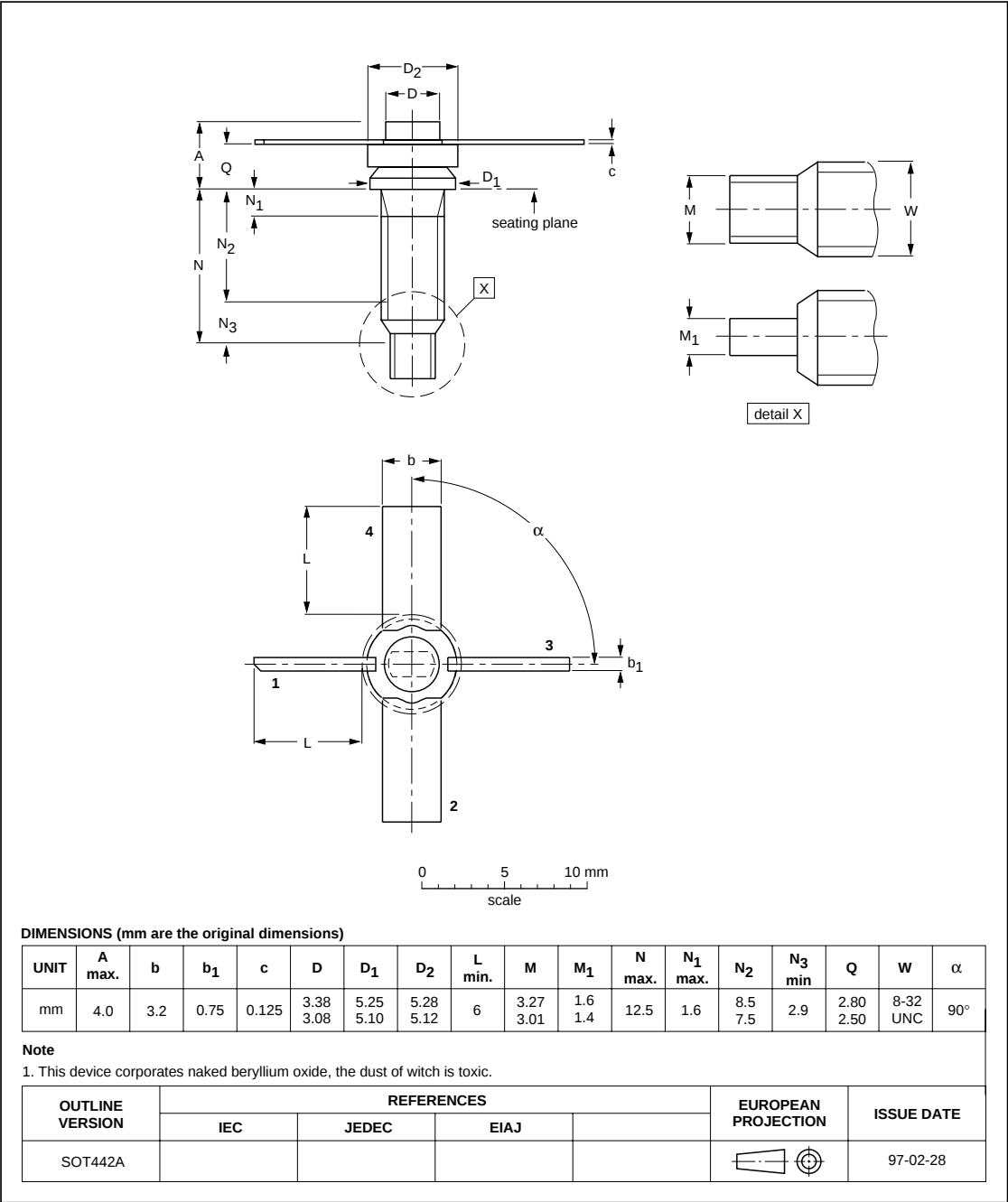
Note

1. This device corporates naked beryllium oxide, the dust of witch is toxic.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT441A						97-02-28

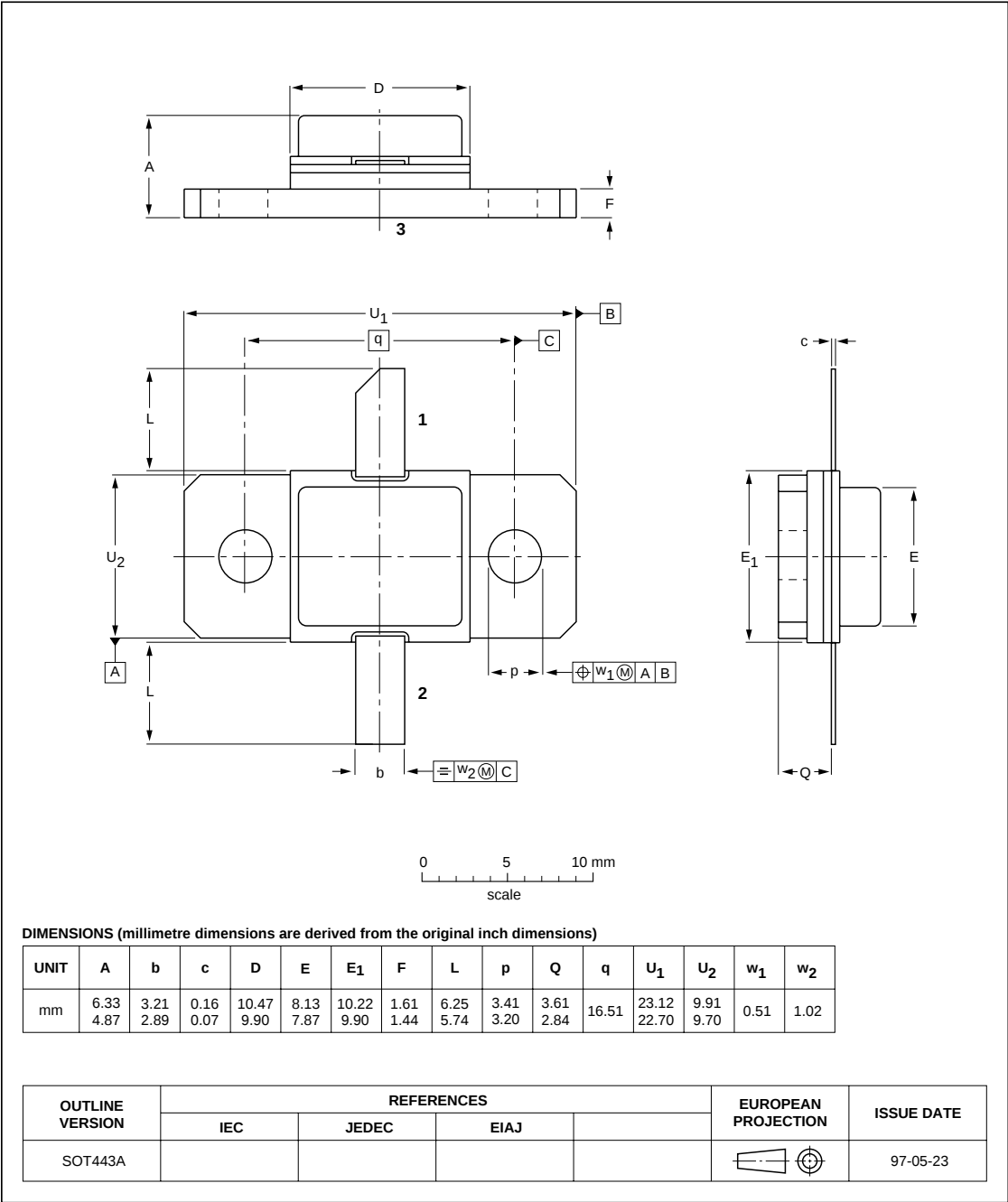
Studded ceramic package; 4 leads

SOT442A



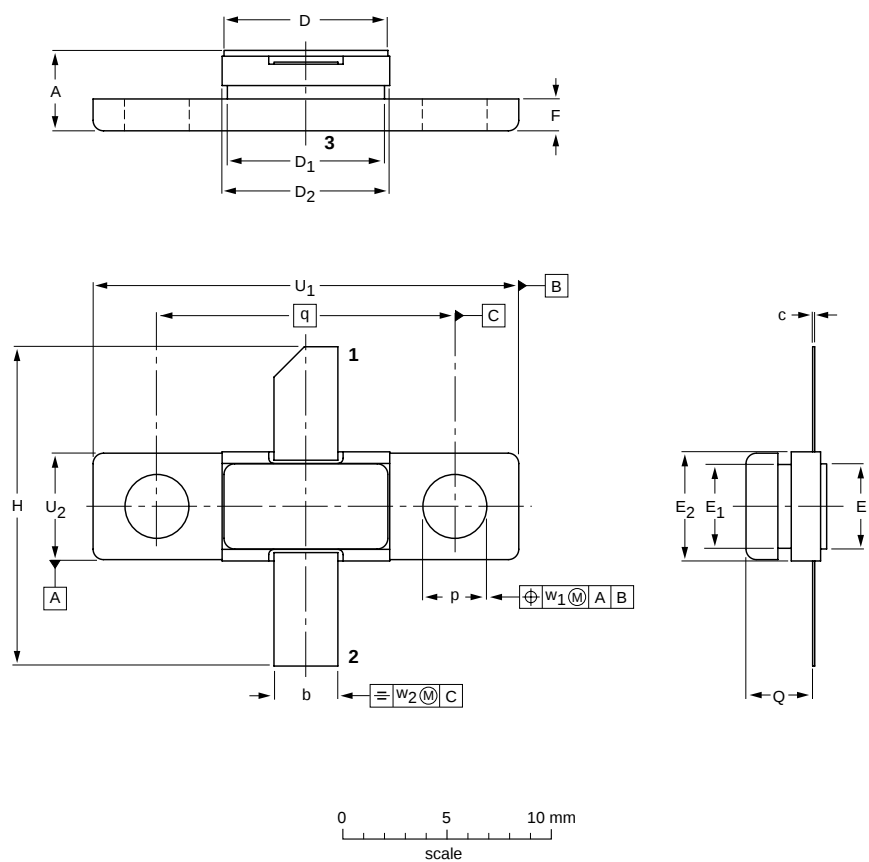
Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT443A



Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT445A



DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	D	D ₁	D ₂	E	E ₁	E ₂	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	4.01 3.36	3.15 2.95	0.15 0.09	7.9 7.7	7.65 7.35	8.15 7.85	4.1 3.9	4.25 3.95	5.31 5.01	1.82 1.22	15.84 14.64	3.35 3.05	3.33 3.03	14.22	20.47 20.17	5.18 4.98	0.51	1.02

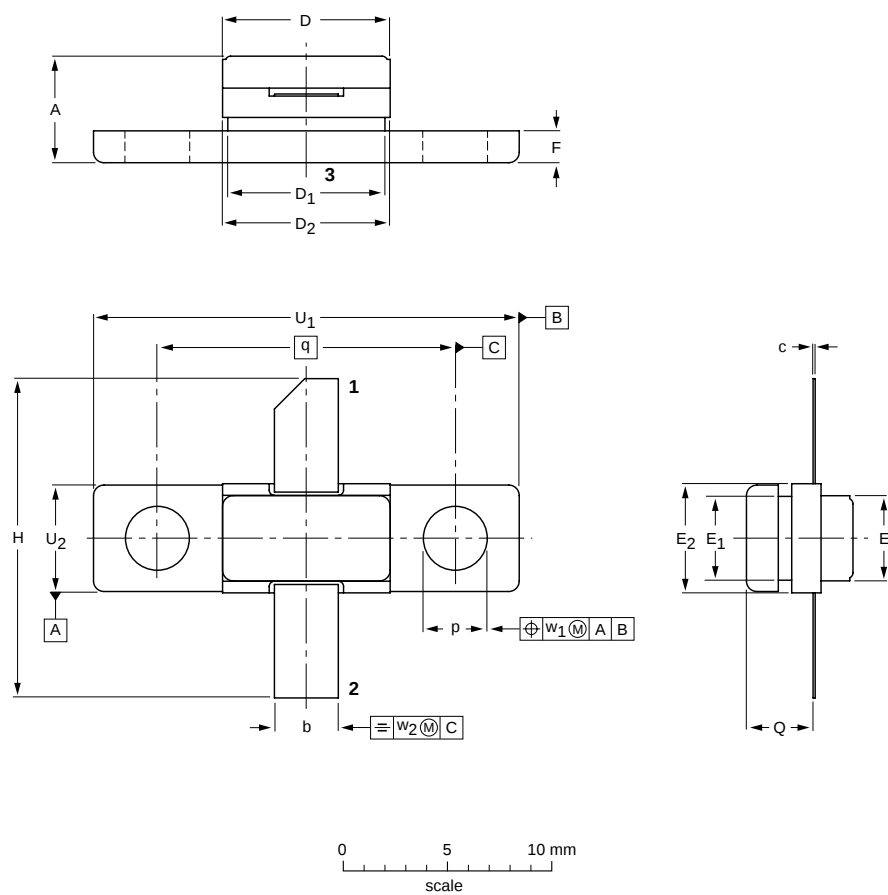
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT445A						97-05-26

RF & Microwave Power Transistors
and RF Power Modules

Package outlines

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT445C



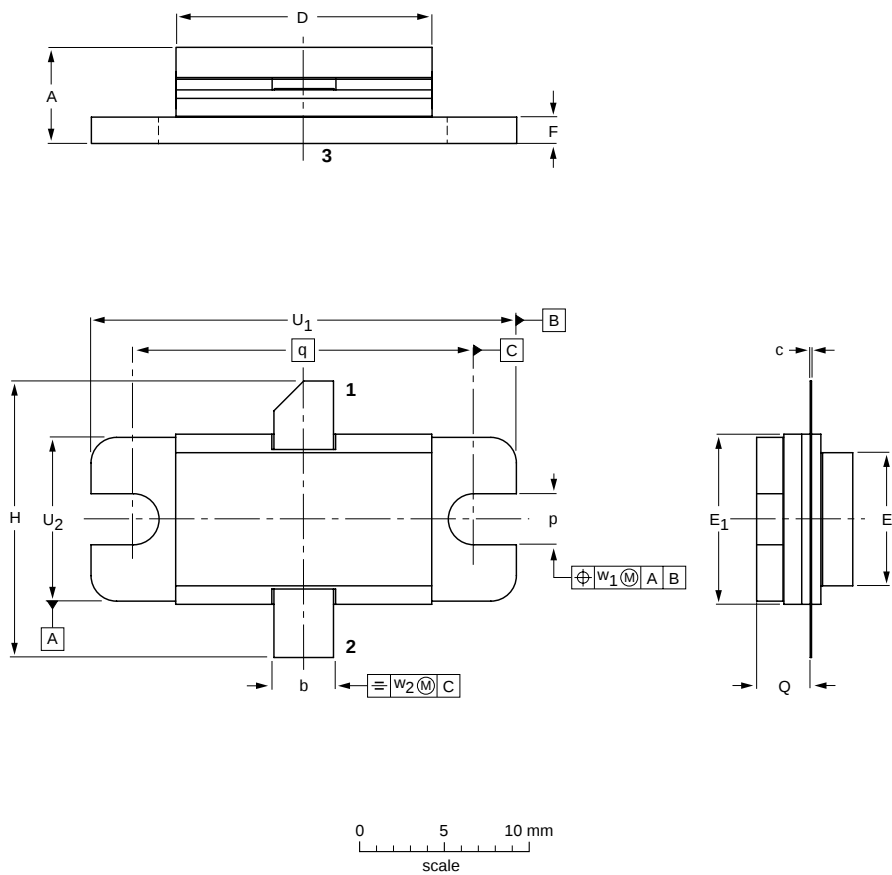
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	D	D ₁	D ₂	E	E ₁	E ₂	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	5.57 4.70	3.15 2.95	0.15 0.09	8.13 7.87	7.65 7.35	8.15 7.85	4.20 3.93	4.25 3.95	5.31 5.01	1.82 1.22	15.84 14.64	3.35 3.05	3.33 3.03	14.22	20.47 20.17	5.18 4.98	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT445C						97-05-23

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT448A



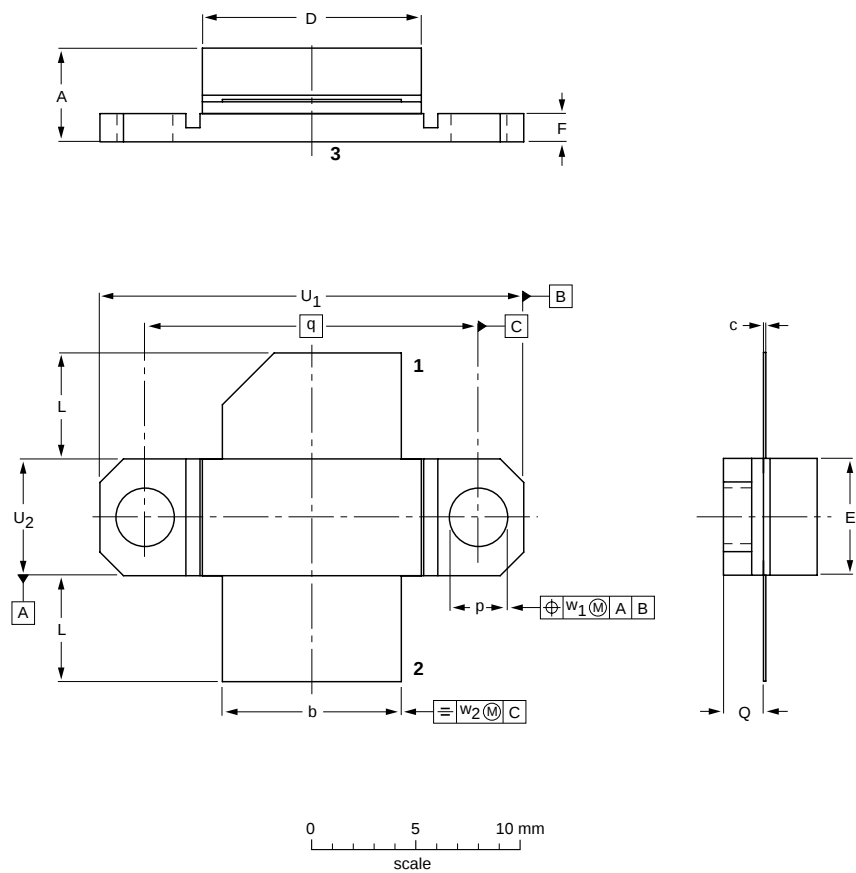
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	E ₁	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	6.18 5.23	3.69 3.42	0.13 0.05	15.68 15.16	8.08 7.82	10.29 10.03	1.63 1.52	17.02 16.00	3.31 2.79	3.42 2.94	20.32	25.53 25.27	9.91 9.65	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT448A						97-05-29

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT460A



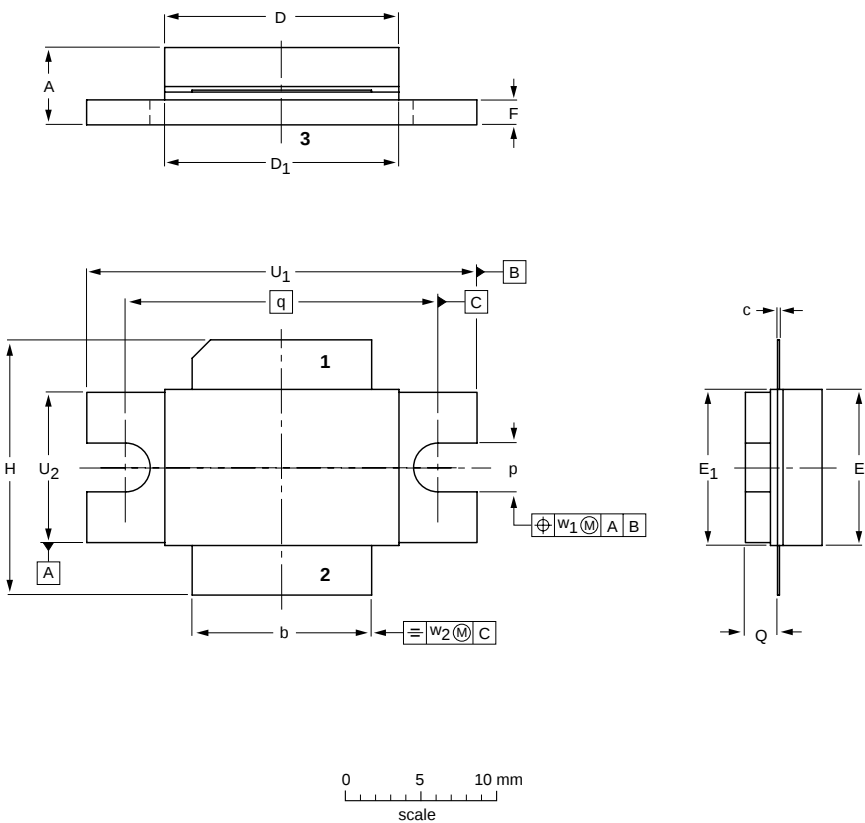
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	E	F	L	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	5.39 4.49	9.78 9.52	0.16 0.07	12.45 11.68	6.94 6.22	1.66 1.39	6.10 5.33	3.28 3.02	2.37 1.95	17.98	22.99 22.73	6.43 6.17	0.51	1.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT460A						97-05-23

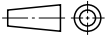
Flanged ceramic (AlN) package; 2 mounting holes; 2 leads

SOT468A



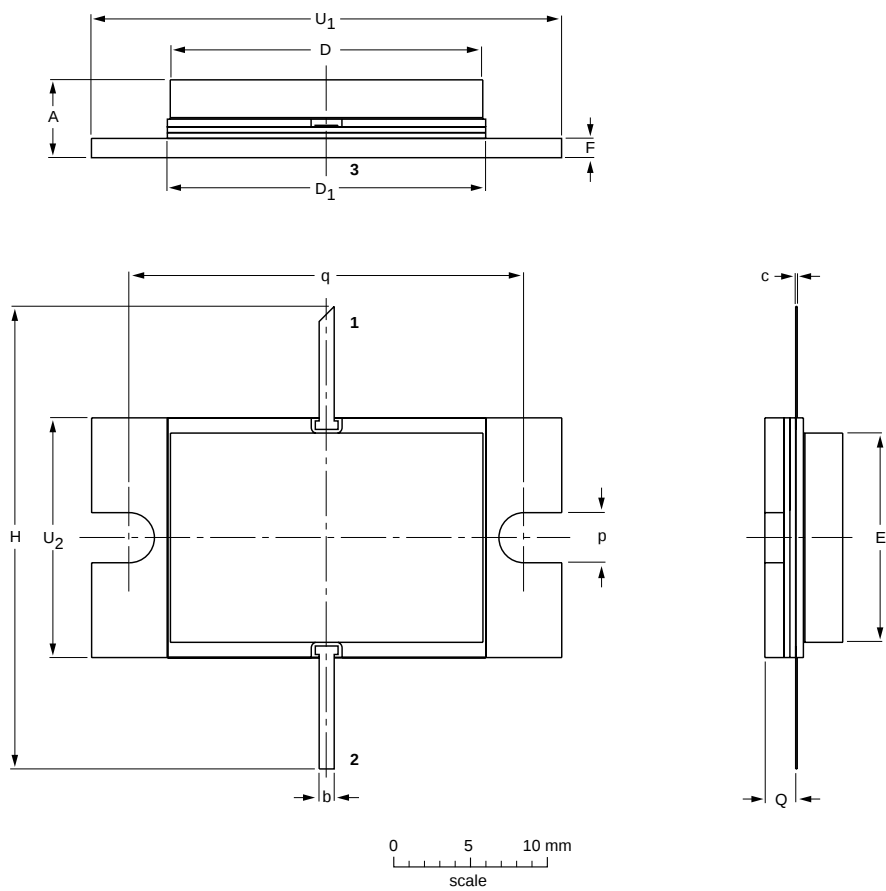
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₁	E	E ₁	F	H	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	5.23 4.62	11.81 11.58	0.15 0.10	15.39 15.09	15.37 15.11	10.26 10.06	10.29 10.03	1.65 1.60	16.74 16.48	3.30 3.05	2.21 2.06	20.32 2.06	25.53 25.27	9.91 9.65	0.254	0.508
inches	0.206 0.182	0.465 0.455	0.006 0.004	0.606 0.594	0.605 0.595	0.404 0.396	0.405 0.395	0.065 0.063	0.659 0.649	0.130 0.120	0.087 0.081	0.800 2.06	1.005 0.995	0.390 0.380	0.01	0.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT468A						97-12-24

Flanged hermetic ceramic package; 2 mounting holes; 2 leads

SOT469A



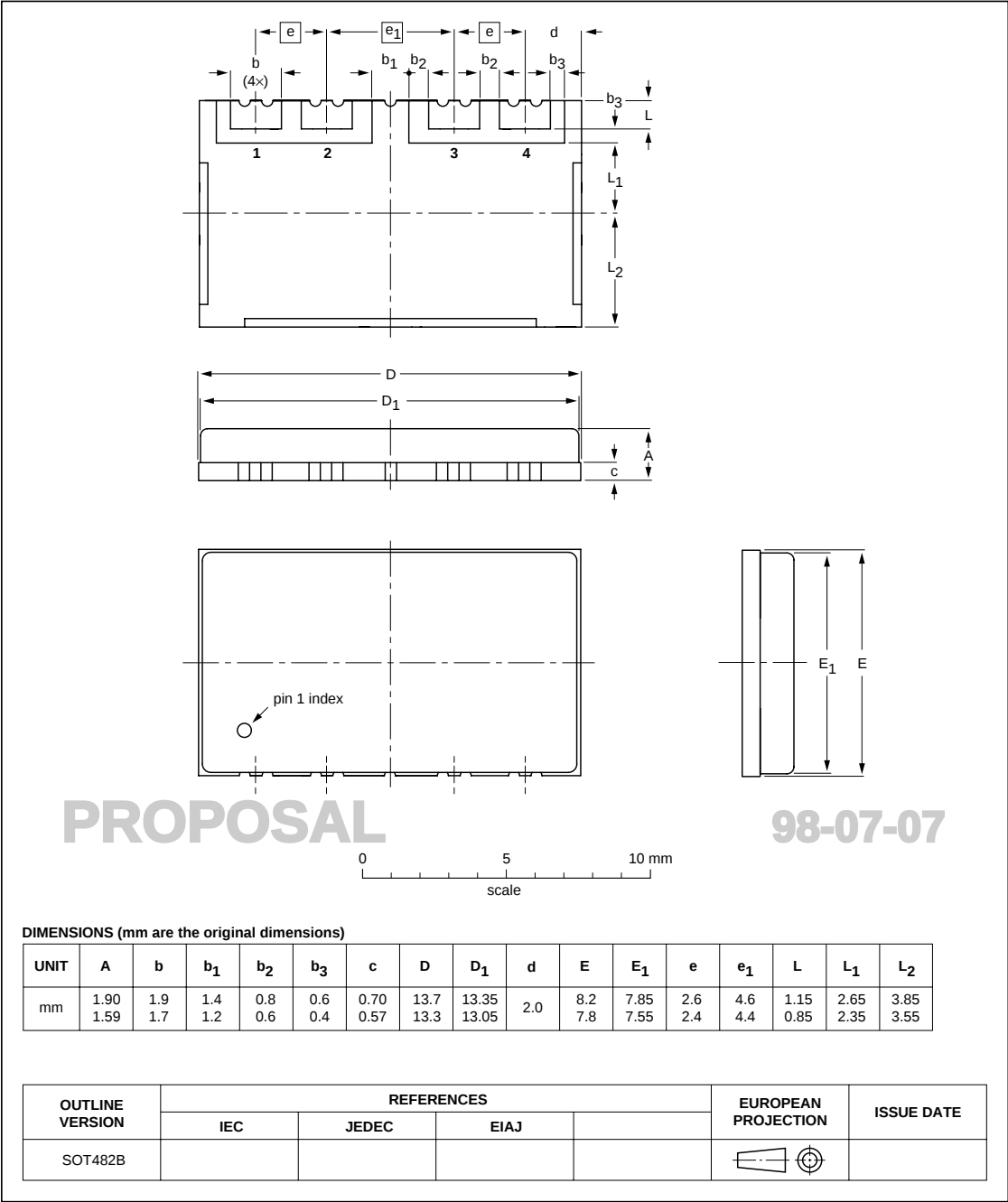
DIMENSIONS (mm are the original dimensions)

UNIT	A	b	c	D	D ₁	E	F	H	p	Q	q	U ₁	U ₂
mm	5.73 4.53	1.12 0.86	0.13 0.07	20.76 20.44	21.11 20.85	13.95 13.63	1.40 1.14	30.61 30.35	3.43 3.17	2.16 1.90	26.14 25.88	31.12 30.86	15.93 15.67

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT469A						97-04-01

Leadless surface mounted package; plastic cap; 4 terminations

SOT482B

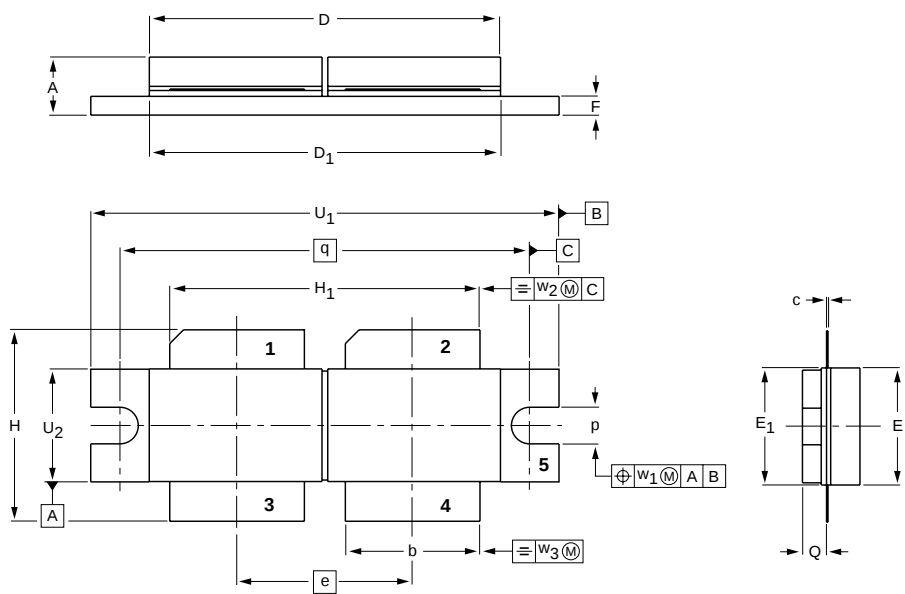


RF & Microwave Power Transistors
and RF Power Modules

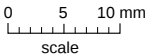
Package outlines

Flanged double-ended ceramic (AlN) package; 2 mounting holes; 4 leads

SOT494A



PROPOSAL



97-10-17

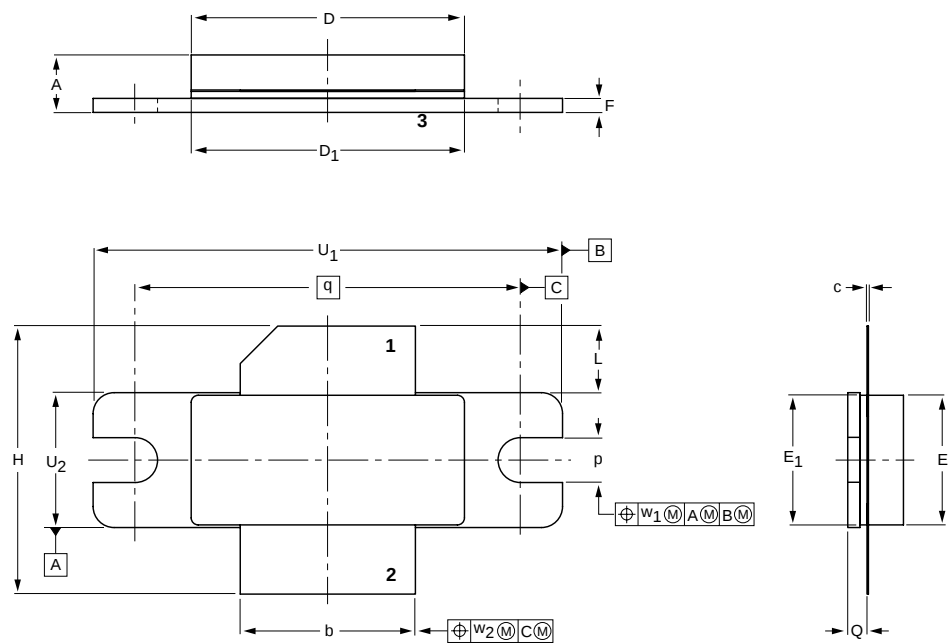
DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₁	E	E ₁	e	F	H	H ₁	p	Q	q	U ₁	U ₂	w ₁	w ₂	w ₃
mm	5.26 4.60	11.81 11.56	0.15 0.10	33.96 28.02	31.37 30.61	10.26 10.06	10.29 10.03	15.75	1.66 1.60	16.74 16.48	27.81 27.05	3.30 3.05	2.21 2.06	36.07	41.28 41.02	10.29 10.03	0.25	0.51	0.25
inches	0.207 0.181	0.465 0.455	0.006 0.004	1.337 1.103	1.235 1.205	0.404 0.396	0.405 0.395	0.62	0.065 0.063	0.659 0.649	1.095 1.065	0.130 0.120	0.087 0.081	1.42	1.625 1.615	0.405 0.395	0.01	0.02	0.01

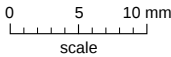
OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT494A						

Flanged LDMOST package; 2 mounting holes; 2 leads

SOT502A



PROPOSAL



98-05-15

DIMENSIONS (millimetre dimensions are derived from the original inch dimensions)

UNIT	A	b	c	D	D ₁	E	E ₁	F	H	L	p	Q	q	U ₁	U ₂	w ₁	w ₂
mm	4.72 3.99	12.83 12.57	0.15 0.08	20.02 19.61	19.96 19.66	9.50 9.30	9.50 9.25	1.14 0.89	19.94 18.92	5.33 4.32	3.38 3.12	1.70 1.45	27.94	34.16 33.91	9.91 9.65	0.25	0.51
inches	0.186 0.157	0.505 0.495	0.006 0.003	0.788 0.772	0.786 0.774	0.374 0.366	0.374 0.364	0.045 0.035	0.785 0.745	0.210 0.170	0.133 0.123	0.067 0.057	1.100	1.345 1.335	0.390 0.380	0.01	0.02

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	EIAJ			
SOT502A						