

Originator: Jean-Michel Prost

Status: CLOSED

Company: EUROFARAD

Accepted: 2014-01-16

EPPL Part: 2

Group: CAPACITORS

Subgroup:

PLASTIC METALLIZED

Part type: PM90S

Description:

- Self-healing metallized film dielectric, non-inductive, thermoplastic case, epoxy resin sealed

Capacitance value (µF)	Rated Voltage (V)	Tolerance (± %)	Available size variants
8.2 to 150	50	10 and 20	01 to 21
3.3 to 100	100	10 and 20	01 to 21
1.0 to 39	250	10 and 20	01 to 21
0.39 to 15	400	10 and 20	01 to 21
0.22 to 5.6	630	10 and 20	01 to 21

Size (mm) Comments

Radial: 20 x 20 x 6.5 (min) to 31 x 32 x 32.5 (max)

SMD: 20 x 20 x 7 (min) to 31 x 32 x 32.5 (max)

- Operating temperature range: -55 to +100 °C

Detail spec: 3006/020

Package: SMD and Radial

Manufacturer: EUROFARAD

APPROVAL STATUS

Qualification: ESCC QPL

Other:

Highest screening level (MIL): Level B or C

Evaluation programmes or other approvals: Evaluation Tests Report XPC-PPB/KB of September 26th, 1996

Former space usage:

The PM90S capacitor has already been in EPPL from 1998 to 2006.

All European space programs

180 lots with a total of more than 20 000 parts has been provided to space industry for the past 5 years.



EPPL COMPONENT

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PREVIOUS PROCUREMENT AND TEST DATA

Test data (Evaluation, Lot acceptance, DPA, MIL QCI/TCI, ...): Maximum operating temperature: +100°C
Maximum rated temperature for environmental tests:
+100°C
6 LAT 1 and 28 LAT 2 carried out successfully for the 5
past years
ESTEC construction analysis report PM90S and PM90SR
N°CA0422 (1996)
22 865 parts delivered since 2008 without any failure

RADIATION HARDNESS DATA

Total dose effects: N/A

Displacement damage:

Single event effects (SEL/SEU/SET/SEFI/SEB/SEGR/others): N/A

REMARKS

The PM90S capacitor has already been in EPPL from 1998 to 2006. It has been withdrawn by mistake due to a misunderstanding.