

Earlier Approval

Number

Year

4802

2017



Certificate No. : 4955

Date of Issue : 01 JUL 2022

Date of Expiry : 01 JUL 2025

GOVERNMENT OF INDIA

Ministry Of Defence

ELECTRONIC COMPONENTS STANDARDISATION ORGANISATION (LCSO)

QUALIFICATION APPROVAL

(UNDER THE PROVISIONS OF JSS 5999-10)

Grant of this Approval confirms the competence of*

MFR ELECTRONIC COMPONENTS PVT. LTD.

Unit No. 40, SDF – 2, SEEPZ,

Andheri East, **MUMBAI – 400 096**

to manufacture the Component(s) described below :

1. Component : Resistors fixed, film, insulated , axial terminations, 0.25W at 70°C
2. Manufacturer's Code : MF25
3. Joint Services Specification : JSS 50401
4. Style Reference : REPG2 – 0.25
5. Range : 10Ω to 1MΩ : Tol : ± 1%, 2% & 5%
Stability : ± 2% , : TCR : ± 25 ±50, ±1ppm/°C
6. JSS 50101 Severities
 - Temperature : T 65/150
 - Damp Heat : H13(6 Cycles and 56 days)
 - Air Pressure (Low) : P19 : 1kPa
 - Acceleration (Steady state) : A12: 1km/s²
 - Impact (Shock) : S14 : 1km/s², 6ms
 - Vibration : V14 : 10 to 2000Hz, 200m/s²
7. Special features : Body color : Blue

(JERY VARCHESE K)

Scientist 'F'

Chairman

LCSO Panel

BANGALORE

(JERY VARCHESE K)

Scientist 'F'

Officer-in-Charge, LCSO

Defence Research and Development Organisation

LRDE, C V Raman Nagar, BANGALORE – 560 093

For Electronics Standardisation Sub-Committee

Place : BANGALORE

Date :

- This Approval does not obviate the need for Batch Acceptance tests.
- Failure of this component during usage may be reported to OIC, LCSO.

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Ministry Of Defence


ELECTRONIC COMPONENTS STANDARDISATION ORGANISATION (LCSO)
QUALIFICATION APPROVAL

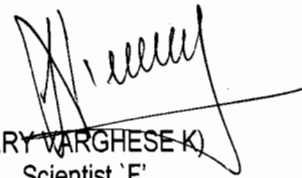
(UNDER THE PROVISIONS OF JSS 5999-10)
Grant of this Approval confirms the competence of*

MFR ELECTRONIC COMPONENTS PVT. LTD.
Unit No. 40, SDF – 2, SEEPZ,
Andheri East, **MUMBAI – 400 096**

to manufacture the component(s) described below :

1. Component : Resistors fixed, film, insulated , axial terminations, 0.5W at 70°C
2. Manufacturer's Code : MF50
3. Joint Services Specification : JSS 50401
4. Style Reference : REPG2 – 0.5
5. Range : 10Ω to 1MΩ : Tol : ± 1%, 2% & 5%
Stability : ± 2% , TCR : ± 25% , ±50% , ±100ppm/°C
6. JSS 50101 Séverities
Temperature : T 65/150
Damp Heat : H13(6 Cycles and 56 days)
Air Pressure (Low) : P19 : 1kPa
Acceleration (Steady state) : A12: 1km/s²
Impact (Shock) : S14 : 1km/s² , 6ms
Vibration : V14 : 10 to 2000Hz, 200m/s²
7. Special features : Body color : Blue


(JERY VARGHESE K)
Scientist 'F'
Chairman
LCSO Panel
BANGALORE


(JERY VARGHESE K)
Scientist 'F'
Officer-in-Charge, LCSO
Defence Research and Development Organisation
LRDE, C V Raman Nagar, BANGALORE – 560 093
For **Electronics Standardisation Sub-Committee**

Place : BANGALORE
Date :

- This Approval does not obviate the need for Batch Acceptance tests.
- Failure of this component during usage may be reported to OIC, LCSO.

इलेक्ट्रॉनिक घटक मानकीकरण संगठन
इलेक्ट्रॉनिक्स तथा रेडार विकास स्थापना
भारत सरकार – रक्षा मंत्रालय
रक्षा अनुसंधान तथा विकास संगठन
पो.बा.स. 9324, सी.वी. रामन नगर
बेंगलूर – 560 093, भारत

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E-Mail : lcs0.irde@gov.in



आई एस ओ 9001-2015 प्रमाणित
ISO 9001 : 2015 Certified



**Electronic Components
Standardisation Organisation**
**Electronics & Radar Development
Establishment**
Govt of India, Ministry of Defence
Defence Research & Development Organisation
P.B. No.9324, C V Raman Nagar
Bengaluru – 560 093, India

Ref. No.:
Date :

: 05649/401/MFR/LCSO
: 13 DEC 2022

To

MFR Electronic Components Pvt. Ltd.,
Unit No. 40, SDF – 2, SEEPZ,
Andheri East
MUMBAI – 400 096

(Kind attn. : Shri GANESH MANI IYER, Technical Director)

Sub. : a) **INCLUSION OF RANGES IN CERTIFICATES No. 4955 & 4956**
b) **CORRECTION IN STYLE REFERENCE**

Dear Sir,

Reference to your email dated 22 NOV 2022

2. You may kindly note that, the following Ranges have been included in

a) **INCLUSION OF RANGES IN CERTIFICATES**

Certificate No. 4955 & 4956 and the details are as follows :

LCSO Certificate No. 4955 for MF 25 – 0.25W Metal Film Resistor
Range : 1E to 10M ; Tol. : 0.1% , 0.25% , 0.5% , 1% , 2% & 5%
Stability : $\pm 2\%$; TCR $\pm 25, \pm 50, \pm 100\text{ppm}/^\circ\text{C}$

LCSO Certificate No. 4956 for MF 50 – 0.50W Metal Film Resistor
Range : 4.3E to 3.01M ; Tol. : 0.1% , 0.25% , 0.5% , 1% , 2% & 5%
Stability : $\pm 2\%$; TCR $\pm 25, \pm 50, \pm 100\text{ppm}/^\circ\text{C}$

b) **Style Reference**

LCSO Certificate No. 4955 & 4956


For **REGP** Read **RFGP**

PTO

3. This is for your information and Kindly acknowledge receipt.

Thanking you,

Yours faithfully,


(RAMA DEVI .P)
Technical Officer 'B'
for Officer in Charge